ORDER NO. ACED031219C7

C4

Service Manual

AUTOMOTIVE AFTERMARKET

COMPACT disc DIGITAL AUDIO TEXT MP3 WMA

CQ-C8400U / CQ-C8300U / CQ-C8200U / CQ-C8100U

Removable Full Front MP3 WMA CD Player/Receiver with Full Dot Matrix Display and CD Changer Control

(CQ-C8400U)

SPECIFICATIONS

Specifications*

General	
Power Supply	DC 12V, Test Voltage 14.4V Negative Ground
Current Consumption	Less than 2.2A / (CD mode; 0.5W × 4 -speaker)
Maximum Power Output	
<CQ-C8400U>	60W × 4(at 1kHz) / Volume Control Maximum
<CQ-C8300U,CQ-C8200U / CQ-C8100U>	50W × 4(at 1kHz) / Volume Control Maximum
Tone Adjustment Range	Bass: ±12dB at 62Hz / Treble: ± 12dB at 16kHz
Equalizer Center Frequency	60Hz, 160Hz, 400Hz, 1kHz, / 3kHz, 6kHz, 16kHz
Variable Range of Equalizer	-12dB to 12dB (2dB step)
Speaker Impedance	4 - 8 Ω
Pre-amp Output Voltage	
<CQ-C8400U,CQ-C8300U / CQ-C8200U>	5V / (CD mode; 1kHz, 0dB)
<CQ-C8100U>	2.5V / (CD mode; 1kHz, 0dB)
Subwoofer Output Voltage	
<CQ-C8400U,CQ-C8300U / CQ-C8200U>	5V
<CQ-C8100U>	2.5V
Pre-amp Output Impedance	
<CQ-C8400U,CQ-C8300U / CQ-C8200U>	60 Ω
<CQ-C8100U>	200 Ω
Subwoofer Output Impedance	
<CQ-C8400U,CQ-C8300U / CQ-C8200U>	60 Ω
<CQ-C8100U>	200 Ω
FM Stereo Radio	
Frequency Range	87.9MHz - 107.9MHz
Usable Sensitivity	10.2dBf (0.9 μ V, 75 Ω)
50dB Quieting Sensitivity	15.2dBf. (1.6 μ V, 75 Ω)
Frequency Response	30Hz-15kHz (±3dB)
Alternate Channel Selectivity	75dB
Stereo Separation	35dB (1kHz)
Image Response Ratio	75dB
IF Response Ratio	100dB
Signal to Noise Ratio	62dB
AM Radio	
Frequency Range	530kHz - 1,710kHz
Usable Sensitivity	27dB/ μ V (11V, S/N 20dB)
CD Player	
Sampling Frequency	8 Times Oversampling
DA Converter	4 DAC System

Pick-up Type	Astigma 3-Beam
Light Source	Semiconductor Laser
Wave Length	780 nm
Frequency Response	20 Hz-20kHz (±1dB)
Signal to Noise Ratio	96dB
Total Harmonic Distortion	0.01% (1kHz)
Wow and Flutter	Below Measurable Limits
Channel Separation	75dB
Dimensions (W×H×D)**	7”×1-15/16”×6-1/8” / (178×50×155mm)
Weight**	3 lbs. 8oz (1.6 kg)
* Specifications and the design are subject to possible modification without notice due to improvements. ** Dimensions and Weight shown are approximate. ** Above specifications comply with EIA standards.	

Panasonic®

1. ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution :

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.

- Pb free solder will tend to splash when heated too high (about 1100°F/600°C)

- This lead free solder will be used for the products after serial No. 1,000,001.

2. FEATURES

- MP3/WMA Playback from CD-R/RW (CQ-C8400U/CQ-C8300U only)
- SQ7 (7 Bands Sound Quality)
- HPF (High Pass Filter)/LPF (Low Pass Filter)
- System Upgrade
- Electronic Switch Front Panel
- CD Changer Control
- Large-sized Volume Control
- Customize Function (CQ-C8400U/CQ-C8300U only)

3. REPLACEING THE FUSE

Use fuses of the same specified rating 15 amps. Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

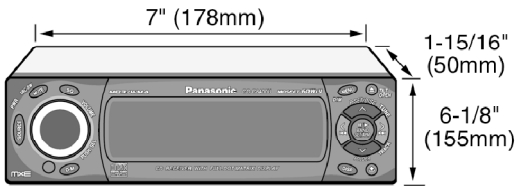
4. MAINTENANCE

Your products is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.

5. NOTES

[RADIO BLOCK]
Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.
[CD DECK BLOCK]
This model has no servo alignment points because microcomputer controls the servo circuit

6. DIMENSIONS



(CQ-C8400U)

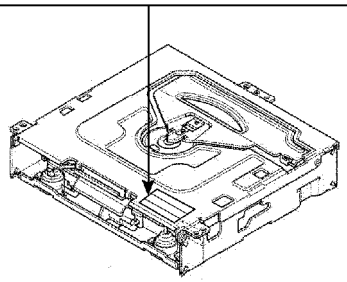
7. LASER PRODUCTS

CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.
Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

DANGER! Visible and invisible laser radiation when open. Avoid direct exposure to beam.

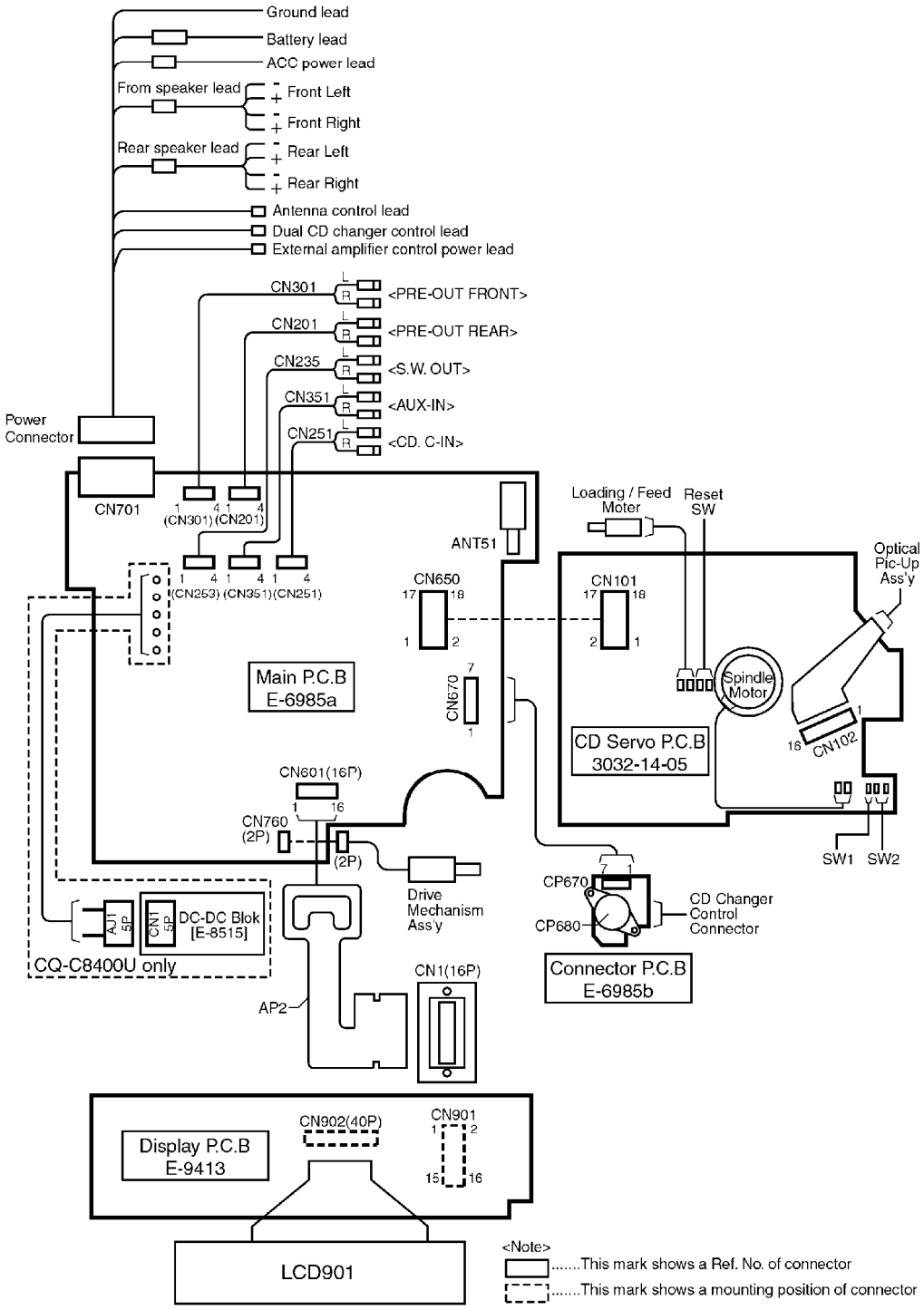


Deck Ass'y (Upper Side)

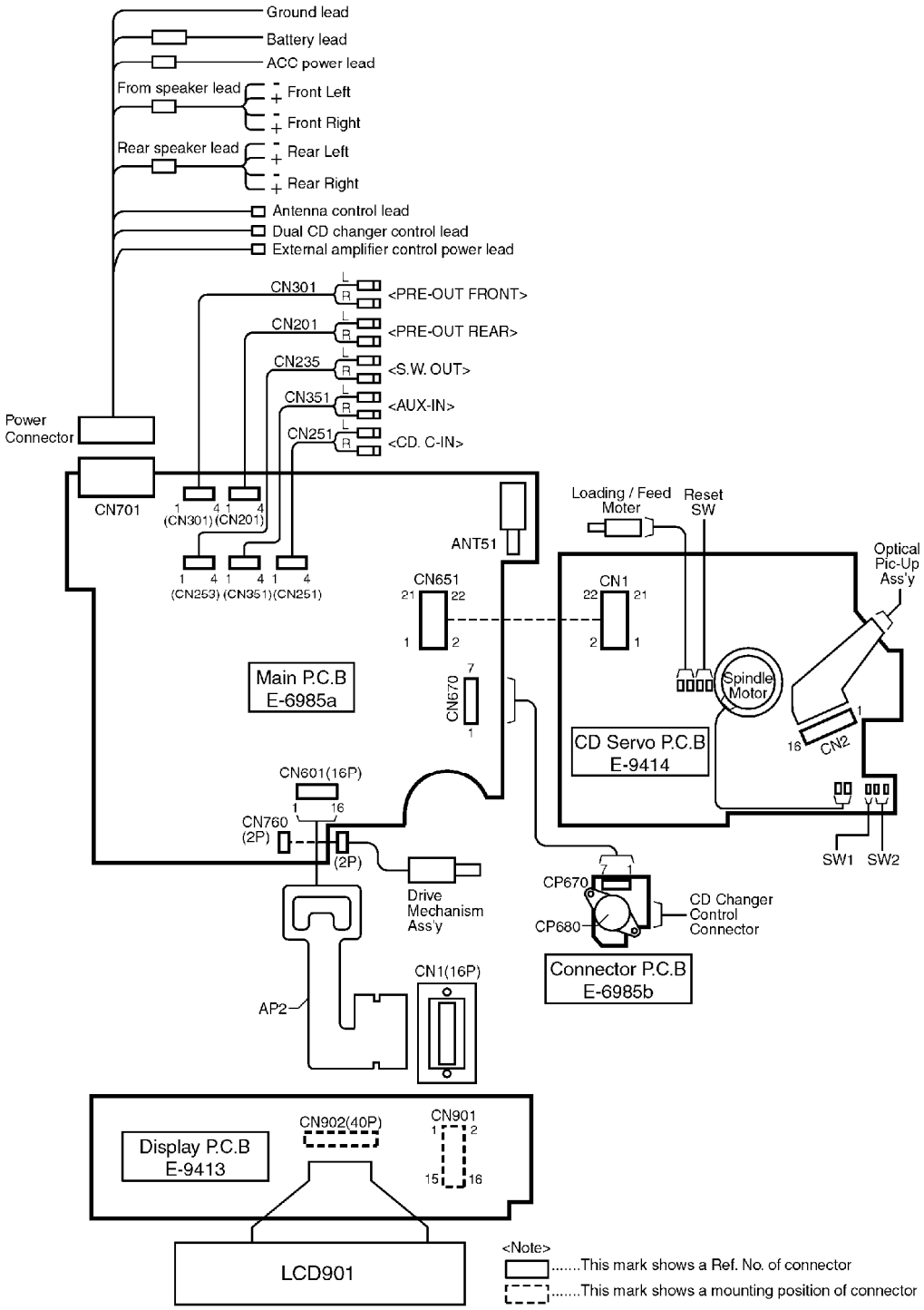
Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

8. WIRING CONNECTION

8.1. CQ-C8400U/C8300U

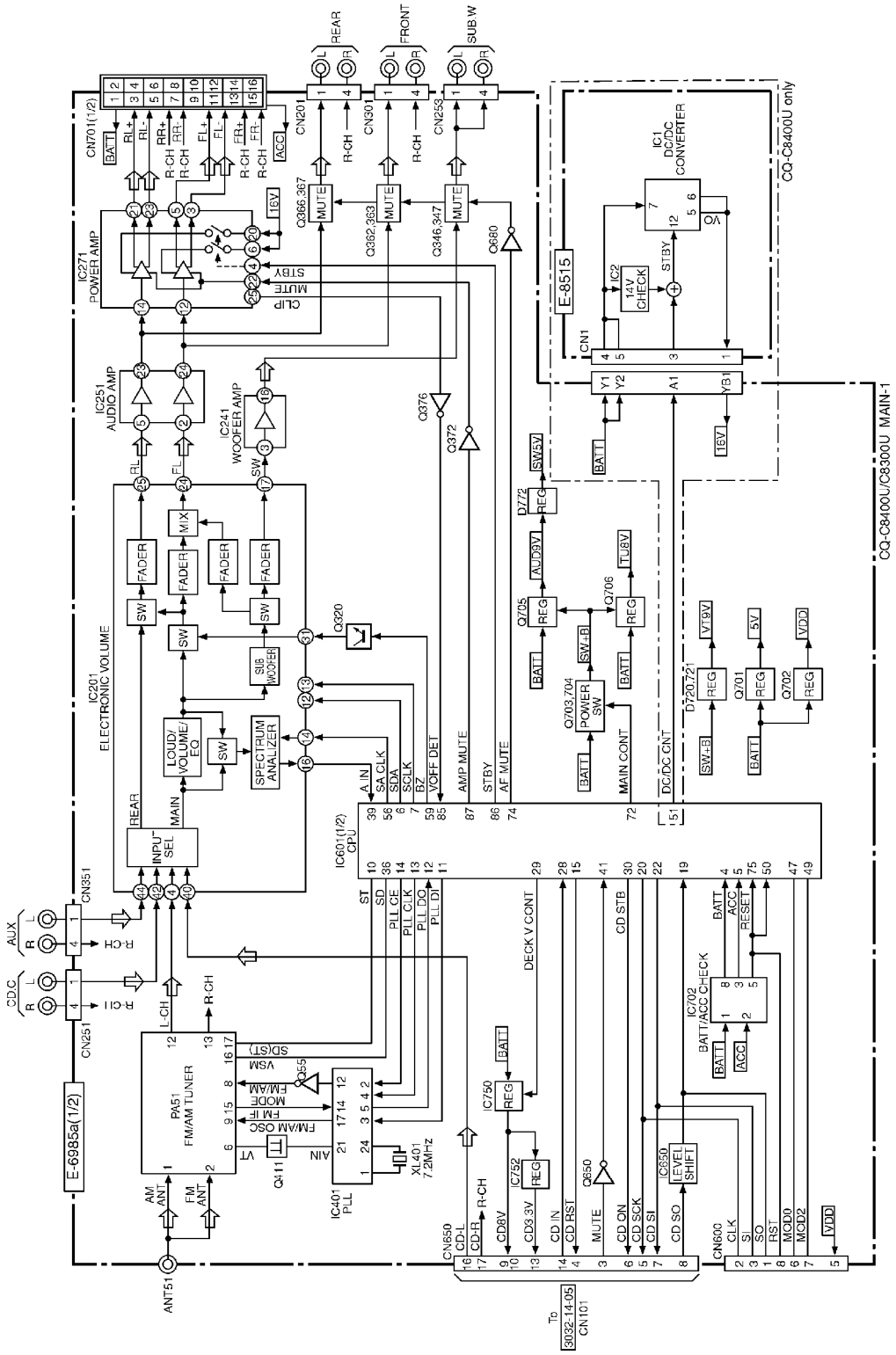


8.2. CQ-C8200U/C8100U

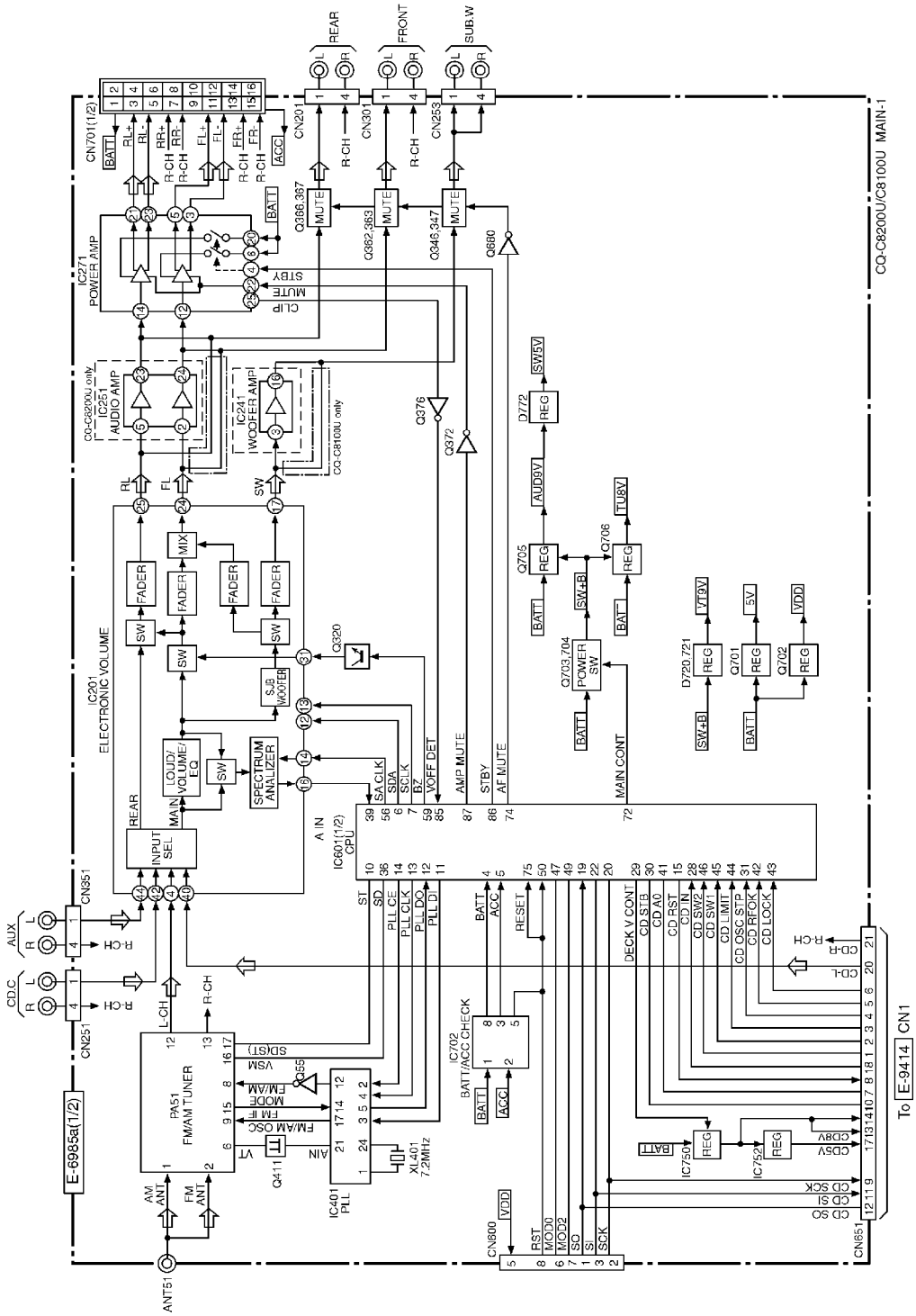


9. BLOCK DIAGRAM

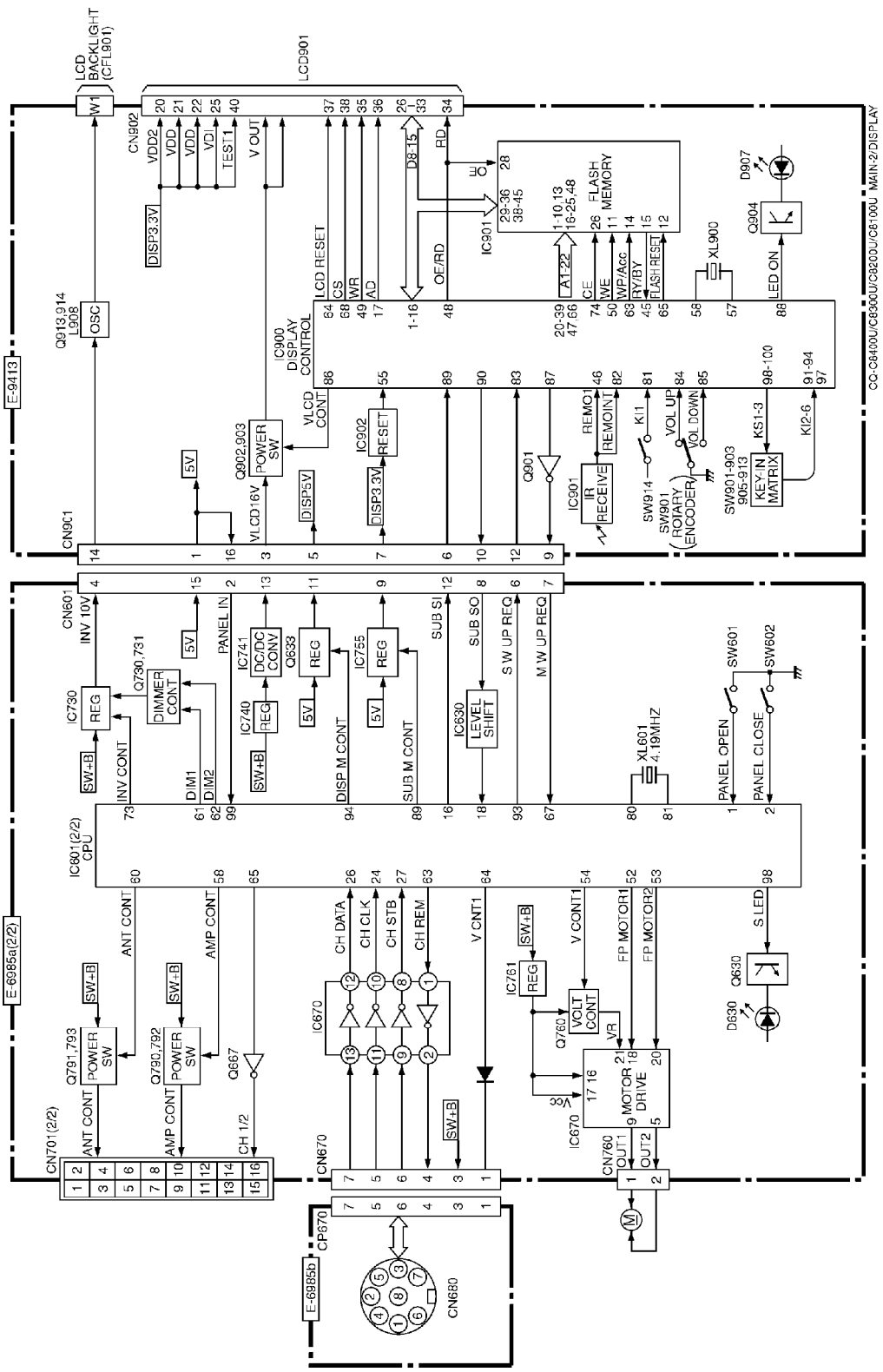
9.1. Main-1 Block [CQ-C8400U/C8300U]



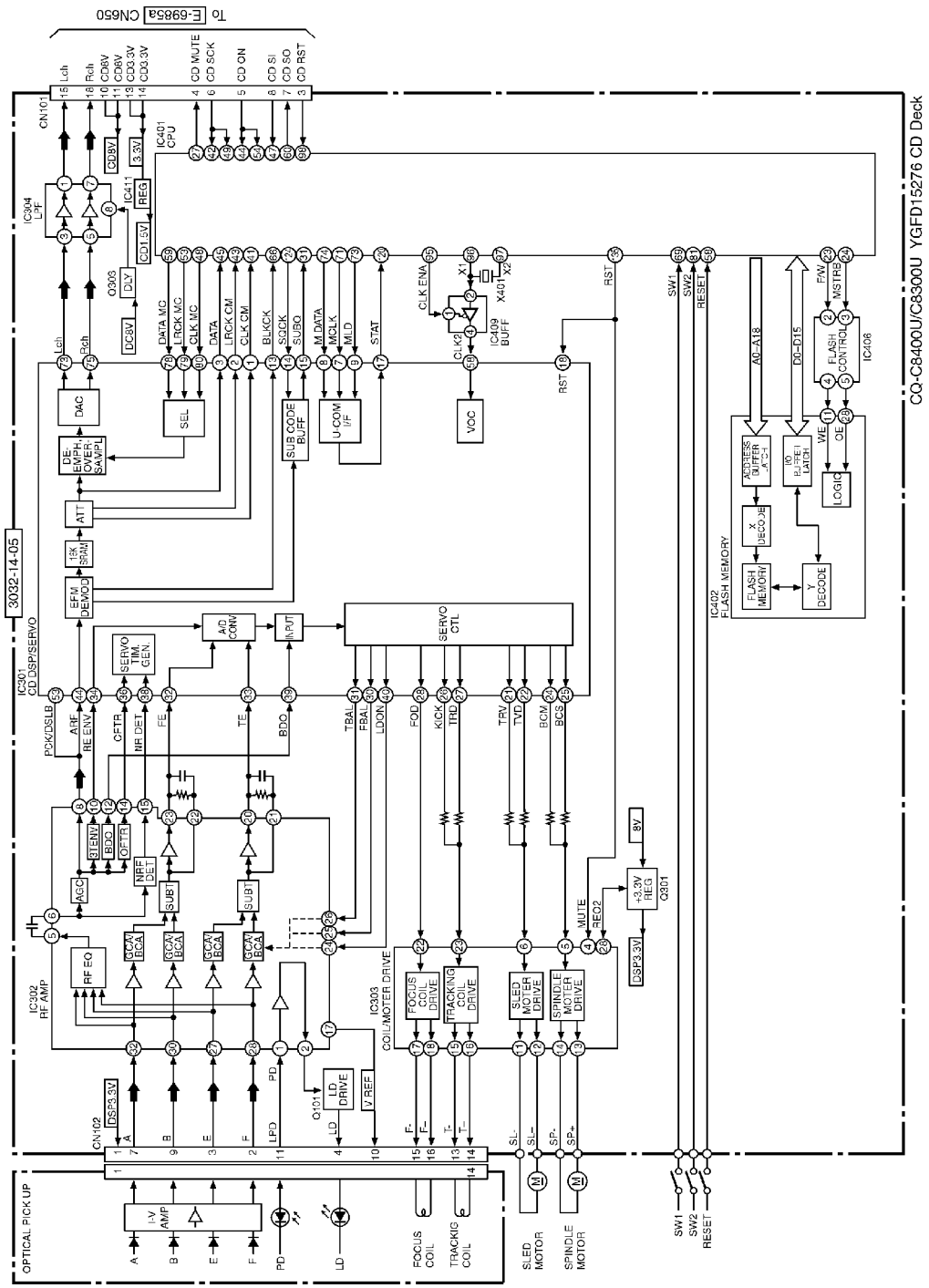
9.2. Main-1 Block [CQ-C8200U/C8100U]



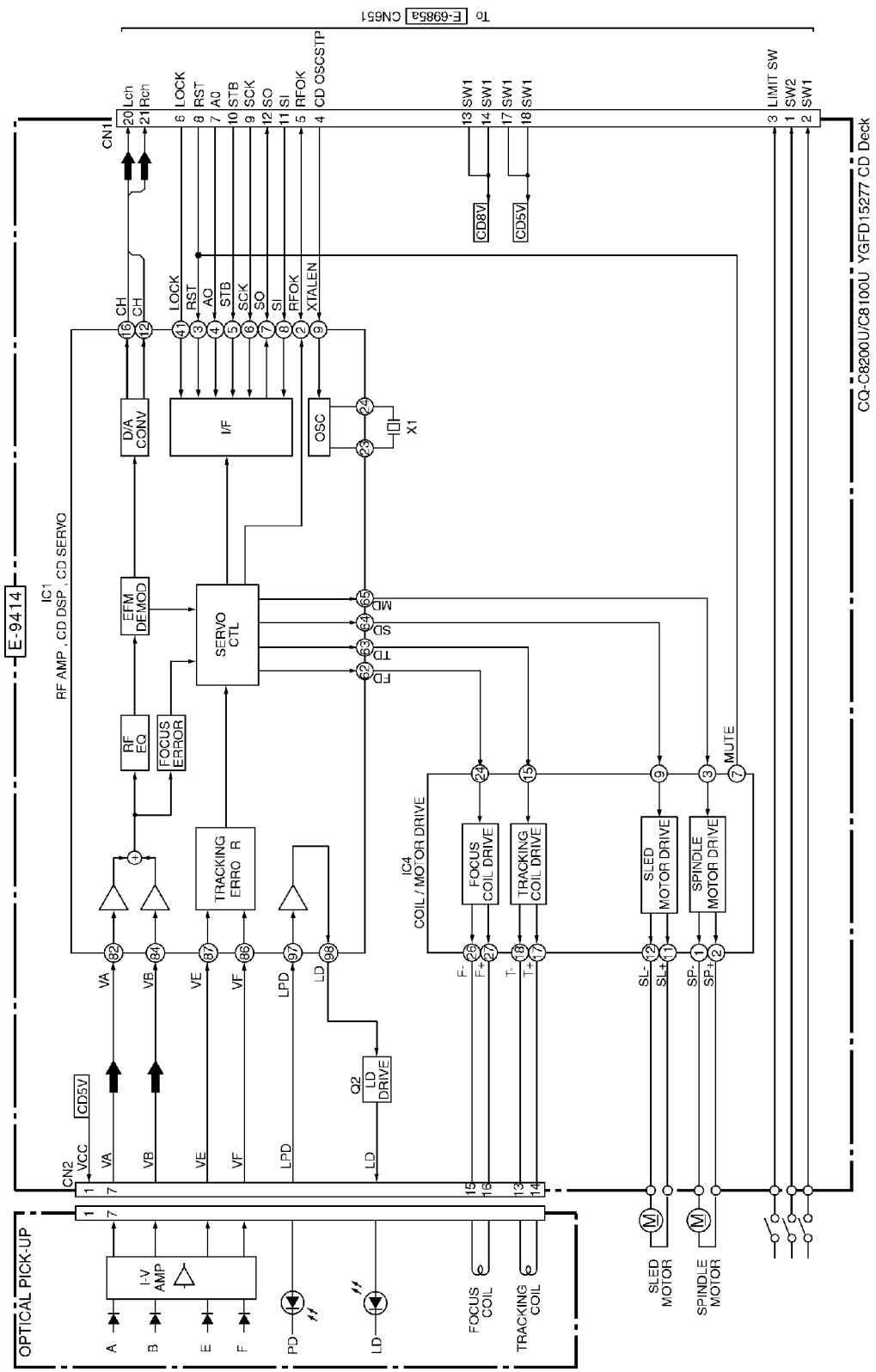
9.3. Main-2/Display Block



9.4. CD Servo Block [CQ-C8400U/C8300U]



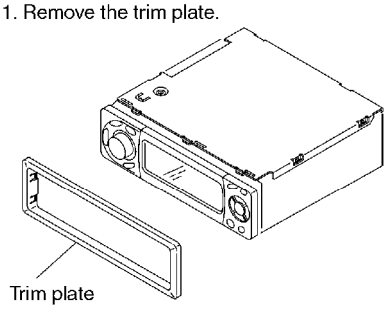
9.5. CD Servo Block [CQ-C8200U/C8100U]



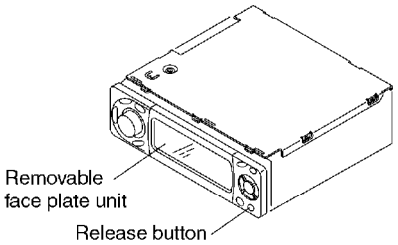
10. DISASSEMBLY INSTRUCTIONS

■How to remove the flexible PCB(AP2)

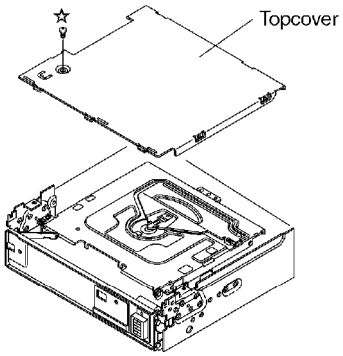
1. Remove the trim plate.



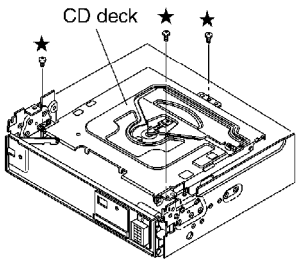
2. Remove the removable face plate unit by pressing the release button.



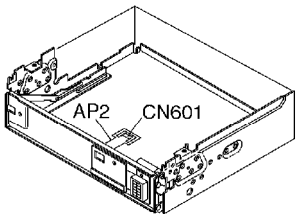
3. Remove the screw(☆) and take off the top cover.



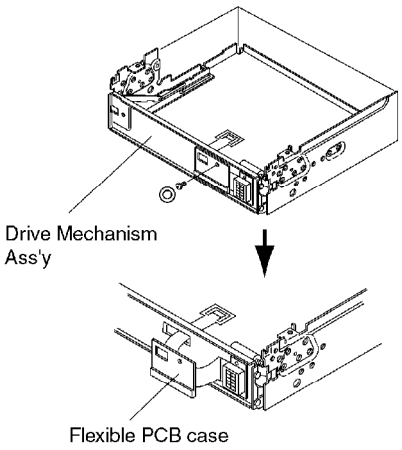
4. Remove the 3 screws(★) and take off the CD deck.



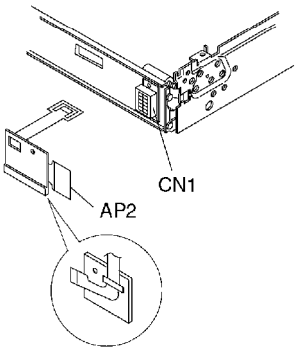
5. Remove the flexible PCB(AP2) from the CN601 (E-6985a).



6. Remove the screw(◎) from the Drive Mechanism Ass'y and remove the flexible PCB case.



7. Remove the flexible PCB(AP2) from the CN1.



11. TERMINALS DESCRIPTION

11.1. Main Block [CQ-C8400U/C8300U]

IC601 : C2CBJG000377

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
1	PANEL_OPEN	PANEL OPEN detection	I	0	5.2	5.2
2	PANEL_CLOSE	PANEL CLOSE detection	I	0	0	5.2
3	NC	No Connection	-	-	-	-
4	BATT	BATT detection	I	4.8	5	5
5	ACC	ACC detection	I	4.8	5	5
6	SDA	Electronic VOL data	I/O	4.9	4.9	4.9
7	SCK	Electronic VOL clock	O	4.9	4.9	4.9
8	NC	No Connection	-	-	-	-
9	Vss	Power supply GND	I	0	0	0
10	ST	FM_ST detection	I	5.1	5.2	5.2
11	PLL_DI(MO)	PLL data output	O	0.6	0	0
12	PLL_DO(MI)	PLL data input	I	5.2	5.2	5.2
13	PLL_CLK	PLL clock output	O	4.9	4.9	4.9
14	PLL_CE	PLL chip enable output	O	0	0	0
15	CD_RST	CD deck reset output	O	4.9	4.9	4.9
16	SUB_SI	SUB_u-com Data trans	SO	0.6	0.6	0.8
17	NC	No Connection	-	-	-	-
18	SUB_SO	SUB_u-com data recept	SI	4.4	4.4	4.4
19	CD_SO(MI) /UP_SO	CD_Data recept/ FLASH_W SO	SI	1.6	1.6	1.6
20	CD_SCK/ UP_CLK	CD clock transmit/ FLASH_W CLK	SCK	4.9	4.9	4.9
21	Vdd	Power supply	I	4.9	4.9	4.9
22	CD_SI(MO) /UP_SI	CD_Data transmit/ FLASH_W SI	S0	0	0	0
23	NC	No Connection	-	-	-	-
24	CDC_CLK	Clock recept from Changer	SCK	0	0.4	0
25	CONDENSOR	Capacitor for power supply	-	3.3	3.3	3.3
26	CDC_DATA	Data recept from Changer	SI	0	0	0
27	CDC_STB	Changer stororb signal input	INT	0	0	0
28	CD_IN	DISC in detect	I	4.9	4.9	0.4

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
29	DECK_V_CONT	DECK power supply control output	O	4.9	4.9	4.9
30	CD_STB	Strobe signal for CD communication	O	3.7	3.7	3.7
31	NC	No Connection	-	-	-	-
32	Avdd	Power supply of D/A converter	I	5.1	5.1	5.1
33	AVREF	Reference voltage for D/A converter	I	5.1	5.1	5.1
34	AVGND	Reference GND for D/A converter	I	0	0	0
35	AVSS	Grand for A/D and D/A converter	I	0	0	0
36	SD	FM/AM signal meter signal input	A/D	0.2	0	0.3
37	INIT_A	Initializ A	A/D	0	0	0
38	INIT_B	Initializ B	A/D	0	0	0
39	A_IN	SPE.ANA_A.IN	A/D	0	0	0
40	Vss	GND	I	0	0	0
41	CD A0	Signal output according to command employment	O	0	0	5.1
42	CD_RFOK	RFOK signal input	I	0	0	0
43	CD_LOCK	CD EFM synchronizing signal	I	0	0	0
44	NC	No Connection	-	-	-	-
45	NC	No Connection	-	-	-	-
46	NC	No Connection	-	-	-	-
47	MOD0	Operating mode input 0	I	5.1	5.1	5.1
48	MOD1	Operating mode input 1	I	5.1	5.1	5.1
49	MOD2	Operating mode input 2	I	0	0	0
50	H_STANDBY	External standby input	I	5	5	5
51	DC_DC_CNT	DC/DC control for 60W (CQ-C8400U)	O	0	0	0
	NC	No Connection (CQ-C8300U)	-	-	-	-

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
52	FP_MOTOR1	Front open/close control 1	O	4.9	5	4.9
53	FP_MOTOR2	Front open/close control 2	O	4.9	5	4.9
54	V_CNT1	Panel driving voltage conÇîrol 1	O	0	0	5
55	V_CNT2(NC)	No Connection	-	-	-	-
56	SA_CLK	Control for Speana acquisition	O	5	5	4.9
57	EXT_MUTE	TEL/NAVI_MUTE input	I	5.3	5.2	5.2
58	AMP_CONT	External AMP control	O	4.9	5	4.9
59	BZ-OUT	Buzzer output	PPG	0	0	0
60	ANT_CONT	Motor antenna control	O	4.9	5	0
61	DIM1	Dimmer control output 1	O	0	0	0
62	DIM2	Dimmer control output 2	O	0	0	0
63	CDC_REM_OUT	Remote control code output to Changer	O	5	5	5
64	CDC_SENS	CDC_1/2 detection	I	5.1	5.1	5.1
65	CDC_1/2	CDC_1/2 change output	O	0	0	0
66	NC	No Connection	-	-	-	-
67	MAIN.W.U.REQ	MAIN.WAKE.UP.REQ input	I	5	4.9	5
68	NC	No Connection	-	-	-	-
69	NC	No Connection	-	-	-	-
70	NC	No Connection	-	-	-	-
71	NC	No Connection	-	-	-	-
72	MAIN_CONT	MAIN power supply control output	O	4.9	4.9	4.9
73	INV_CONT	INV power supply control output	O	5	5	5
74	AF_MUTE	Tr-MUTE control	O/I	5	5	5
75	RESET	Reset input	I	5	5	5
76	NC	No Connection	-	-	-	-
77	NC	No Connection	-	-	-	-
78	NC	-	I	0	0	0
79	Vss	GND	I	0	0	0

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
80	X1	Crystal oscillator input	I	2	2	2
81	X2	Crystal oscillator output	O	2.5	2.5	2.5
82	Vdd	Power supply	I	5	5	5
83	P00	Pldaun port for writing	I	0	0	0
84	P01	Pull-up port for writing	I	5.1	5	5.1
85	OFFSET_DET	PWR-IC_OFFSET detection	I	0	0	0
86	STBY	PWR-IC_STBY control output	O	5	5	5
87	MUTE	PWR-IC_MUTE control output	O	0	0	0
88	ILL_SENS	External dimmer control input	I	5	5	5
89	SUBM_CNT	3.3V control for SUB microcomputer	O	5	5	5
90	NC/ EP_DO(MI)	EPROM data input	O/I	0	0	0
91	NC	No Connection	-	-	-	-
92	NC	No Connection	-	-	-	-
93	SUB_W_U_REQ	SUB.WAKE.UP.REQ	O	4.9	5	4.9
94	DISPM_CNT	Power supply control output of display 5V	O/I	0	0	0
95	CD_ILL	No Connection	-	-	-	-
96	NC	No Connection	-	-	-	-
97	NC	No Connection	-	-	-	-
98	S_LED	Security LED control output	O	0	0	5
99	PANEL_IN	PANEL detect	I	5.2	5.2	5.2
100	EP_CS(NC)	No Connection	-	-	-	-

11.2. Main Block [CQ-C8200U/C8100U]

IC601 : C2CBJG000378

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
1	PANEL_OPEN	PANEL OPEN detection	I	0	5.2	5.2
2	PANEL_CLOSE	PANEL CLOSE detection	I	0	0	5.2
3	NC	No Connection	-	-	-	-
4	BATT	BATT detection	I	4.8	5	5
5	ACC	ACC detection	I	4.8	5	5
6	SDA	Electronic VOL data	I/O	4.9	4.9	4.9
7	SCK	Electronic VOL clock	O	4.9	4.9	4.9
8	NC	No Connection	O	-	-	-
9	Vss	Power supply GND	I	0	0	0
10	ST	FM_ST detection	I	5.1	5.2	5.2
11	PLL_DI(MO)	PLL data output	O	0.6	0	0
12	PLL_DO(MI)	PLL data input	I	5.2	5.2	5.2
13	PLL_CLK	PLL clock output	O	4.9	4.9	4.9
14	PLL_CE	PLL chip enable output	O	0	0	0
15	CD_RST	CD deck reset output	O	4.9	4.9	4.9
16	SUB_SI	SUB_u-com Data trans	SO	0.6	0.6	0.8
17	NC	No Connection	-	-	-	-
18	SUB_SO	SUB_u-com data recept	SI	4.4	4.4	4.4
19	CD_SO(MI)/ UP_SO	CD_Data recept/ FLASH_W SO	SI	1.6	1.6	1.6
20	CD_SCK/ UP_CLK	CD clock transmit/ FLASH_W CLK	SCK	4.9	4.9	4.9
21	Vdd	Power supply	I	4.9	4.9	4.9
22	CD_SI(MO)/ UP_SI	CD_Data transmit/ FLASH_W SI	S0	0	0	0
23	NC	No Connection	-	-	-	-
24	CDC_CLK	Clock recept from Changer	SCK	0	0.4	0
25	CONDENSOR	Capacitor for power supply	-	3.3	3.3	3.3
26	CDC_DATA	Data recept from Changer	SI	0	0	0

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
27	CDC_STB	Changer stororb signal input	INT	0	0	0
28	CD_IN	DISC in detect	I	4.9	4.9	0.4
29	DECK_V_CONT	DECK power supply control output	O	4.9	4.9	4.9
30	CD_STB	Strobe signal for CD communication	O	3.7	3.7	3.7
31	CD_OSCSTIP	CD OSC stop signal output	O	4.9	4.9	0
32	Avdd	Power supply of D/A converter	I	5.1	5.1	5.1
33	AVREF	Reference voltage for D/A converter	I	5.1	5.1	5.1
34	AVGND	Reference GND for D/A converter	I	0	0	0
35	AVSS	Grand for A/D and D/A converter	I	0	0	0
36	SD	FM/AM signal meter signal input	A/D	0.2	0	0.3
37	INIT_A	Initializ A	A/D	0	0	0
38	INIT_B	Initializ B	A/D	0	0	0
39	A_IN	SPE.ANA_A.IN	A/D	0	0	0
40	Vss	GND	I	0	0	0
41	CD A0	Signal output according to command employment	O	0	0	5.1
42	CD_RFOK	RFOK signal input	I	0	0	0
43	CD_LOCK	CD EFM synchronizing signal	I	0	0	0
44	CD_LIMIT	CD inner detection switch	O	0	0	5
45	CD_SW1	CD DISC IN detection switch	O	0	0	0

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
46	CD_SW2	CD DISC IN detection switch	O	5	5	0
47	MOD0	Operating mode input 0	I	5.1	5.1	5.1
48	MOD1	Operating mode input 1	I	5.1	5.1	5.1
49	MOD2	Operating mode input 2	I	0	0	0
50	H_STANDBY	External standby input	I	5	5	5
51	DC_DC_CNT(NC)	No Connection	-	-	-	-
52	FP_MOTOR1	Front open/ close control 1	O	4.9	5	4.9
53	FP_MOTOR2	Front open/ close control 2	O	4.9	5	4.9
54	V_CNT1	Panel driving voltage conÇîrol 1	O	0	0	5
55	V_CNT2(NC)	No Connection	-	-	-	-
56	SA_CLK	Control for Speana acquisition	O	5	5	4.9
57	EXT_MUTE	TEL/ NAVI_MUTE input	I	5.3	5.2	5.2
58	AMP_CONT	External AMP control	O	4.9	5	4.9
59	BZ-OUT	Buzzer output	PPG	0	0	0
60	ANT_CONT	Motor antenna control	O	4.9	5	0
61	DIM1	Dimmer control output 1	O	0	0	0
62	DIM2	Dimmer control output 2	O	0	0	0
63	CDC_REM_OUT	Remote control code output to Changer	O	5	5	5
64	CDC_SENS	CDC_1/2 detection	I	5.1	5.1	5.1
65	CDC_1/2	CDC_1/2 change output	O	0	0	0
66	NC	No Connection	-	-	-	-
67	MAIN.W.U.REQ	MAIN.WAKE.UP.REQ input	I	5	4.9	5
68	NC	No Connection	-	-	-	-

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
69	NC	No Connection	-	-	-	-
70	NC	No Connection	-	-	-	-
71	NC	No Connection	-	-	-	-
72	MAIN_CONT	MAIN power supply control output	O	4.9	4.9	4.9
73	INV_CONT	INV power supply control output	O	5	5	5
74	AF_MUTE	Tr-MUTE control	O/I	5	5	5
75	RESET	Reset input	I	5	5	5
76	NC	No Connection	-	-	-	-
77	NC	No Connection	-	-	-	-
78	NC	-	-	-	-	-
79	Vss	GND	I	0	0	0
80	X1	Crystal oscillator input	I	2	2	2
81	X2	Crystal oscillator output	O	2.5	2.5	2.5
82	Vdd	Power supply	I	5	5	5
83	P00	Pldaun port for writing	I	0	0	0
84	P01	Pull-up port for writing	I	5.1	5	5.1
85	OFFSET_DET	PWR-IC_OFFSET detection	I	0	0	0
86	STBY	PWR-IC_STBY control output	O	5	5	5
87	MUTE	PWR-IC_MUTE control output	O	0	0	0
88	ILL_SENS	External dimmer control input	I	5	5	5
89	SUBM_CNT	3.3V control for SUB microcomputer	O	5	5	5
90	NC/ EP_DO(MI)	EPROM data input	O/I	0	0	0
91	NC	No Connection	-	-	-	-
92	NC	No Connection	-	-	-	-
93	SUB_W_U_REQ	SUB.WAKE.UP.REQ	O	4.9	5	4.9
94	DISPM_CNT	Power supply control output of display 5V	O/I	0	0	0
95	CD_ILL(NC)	No Connection	-	-	-	-

Pin No.	Port	Description	(I/O)	(V)		
				FM	AM	CD
96	NC	No Connection	-	-	-	-
97	NC	No Connection	-	-	-	-
98	S_LED	Security LED control output	O	0	0	5
99	PANEL_IN	PANEL detect	I	5.2	5.2	5.2
100	EP_CS(NC)	No Connection	-	-	-	-

11.3. Display Block

IC900 : C2DBKJ000188

Pin No.	Port	Part Name & Description	I/O	(V)
1	D0	FLASH D0	I	0.7
2	D1	FLASH D1	I	1.3
3	D2	FLASH D2	I	1.3
4	D3	FLASH D3	I	1.6
5	D4	FLASH D4	I	1.7
6	D5	FLASH D5	I	1.6
7	D6	FLASH D6	I	1.4
8	D7	FLASH D7	I	1.3
9	D8	FLASH D8/LCD D0	I/O	1.4
10	D9	FLASH D9/LCD D1	I/O	1.3
11	D10	FLASH D10/LCD D2	I/O	1.6
12	D11	FLASH D11/LCD D3	I/O	1.5
13	D12	FLASH D12/LCD D4	I/O	1.6
14	D13	FLASH D13/LCD D5	I/O	1.5
15	D14	FLASH D14/LCD D6	I/O	1.6
16	D15	FLASH D15/LCD D7	I/O	1.5
17	A0	LCD driver data command distinction	O	0.8
18	VSS	Connecting to GND	-	0
19	VCC	Connecting to VDD	-	3
20	A1	FLASH A0	O	0
21	A2	FLASH A1	O	0.6
22	A3	FLASH A2	O	0.1
23	A4	FLASH A3	O	0.6
24	A5	FLASH A4	O	0.6
25	A6	FLASH A5	O	0.3
26	A7	FLASH A6	O	0.9
27	A8	FLASH A7	O	0.6
28	A9	FLASH A8	O	0
29	A10	FLASH A9	O	0
30	A11	FLASH A10	O	0.8
31	A12	FLASH A11	O	1.2

Pin No.	Port	Part Name & Description	I/O	(V)
32	A13	FLASH A12	O	1.2
33	A14	FLASH A13	O	0
34	A15	FLASH A14	O	0
35	A16	FLASH A15	O	1
36	A17	FLASH A16	O	0
37	A18	FLASH A17	O	0
38	A19	FLASH A18	O	0
39	A20	FLASH A19	O	0
40	VSS	Connecting to GND	-	0
41	NC	No Connection	-	-
42	NC	No Connection	-	-
43	VSS	Connecting to GND	-	0
44	VCC	Connecting to VDD	-	3.2
45	FLASH_RY/ BY	FLASH lady/busy input	I	3.2
46	REMO_1	Remote control signal input	I	3.3
47	A22	FLASH_A21	O	10.7
48	FLASH_OE/ LCD_RD	FLASH output enable/ LCD driver lead strobing output	O	3.2
49	LCD_WR	LCD driver right strobing signal output	O	3.2
50	FLASH_WE	FLASH light enable signal output	O	3.2
51	NMIX	-	I	0
52	MD2	Mode setting	I	0
53	MD1	Mode setting	I	0
54	MD0	Mode setting	I	3.2
55	RESET	System RESET signal input	I	3.3
56	VCC	Connecting to VDD	-	3.2
57	X1	MAIN system clock output(12.5MHz)	O	1.5
58	X0	MAIN system clock input(12.5MHz)	I	1.2
59	VSS	Connecting to GND	-	0
60	X0A	Connecting to GND	I	0
61	X1A(NC)	No Connection	-	-
62	NC	No Connection	-	-
63	FLASH_WP/ ACC	FLASH write-protection/ Acseraration output	O	-

Pin No.	Port	Part Name & Description	I/O	(V)
64	LCD_RESET	LCD driver reset control output	O	-
65	FLASH_RESET	FLASH reset control output	O	-
66	A21	FLASH_A20	O	-
67	NC	No Connection	-	-
68	LCD_CS	LCD driver chip selection output	O	-
69	NC	No Connection	-	-
70	LED_R (PN0)	Red LED control	O	0
71	LED_G (PN2)	Green LED control	O	0
72	LED_B(NC)	No Connection	-	-
73	NC	No Connection	-	-
74	FLASH_CE	FLASH chip enable	O	-
75	NC	No Connection	-	-
76	VSS	Connecting to GND	-	0
77	VCC	Connecting to VDD	-	3.2
78	NC	No Connection	-	-
79	NC	No Connection	-	-
80	NC	No Connection	-	-
81	KI1(SOURCE)	One key return signal input	INT/I	0
82	REMO_INT	Remote control signal interrupt input	INT	3.2
83	S_W_U_REQ	SUB-u-com wake up demand input	INT	3.1
84	ROTARY.1	Rotary encoder signal input 1(VOL UP)	I	2.3
85	ROTARY.2	Rotary encoder signal input 2(VOL DOWN)	I	2.3
86	VLCD_CONT	VLCD 16V control terminal	O	3.2
87	M_W_U_REQ	MAIN-u-com wake up demand output	O	0
88	LED_ON	P.LED control output	O	0
89	SUB_SI	MAIN-u-com communication data entry	I	0.2
90	SUB_SO	MAIN-u-com communication data output	O	2.5

Pin No.	Port	Part Name & Description	I/O	(V)
91	KI2	Key return signal 2 input	I	0
92	KI3	Key return signal 3 input	I	0
93	KI4	Key return signal 4 input	I	0
94	KI5	Key return signal 5 input	I	0
95	VCC	Connecting to VDD	-	3.2
96	VSS	Connecting to GND	-	0
97	KI6	Key return signal 6 input	I	0
98	KS1	Key scanning signal 1 output	O	0
99	KS2	Key scanning signal 2 output	O	0
100	KS3	Key scanning signal 3 output	O	0.1
101	NC	No Connection	-	-
102	UP_SO	External Flash rewriting input	O	-
103	UP_SI	External Flash rewriting output	O	-
104	UP_CLK	External Flash rewriting switch	I	3.2
105	NC	No Connection	-	-
106	NC	No Connection	-	-
107	DAVS	Connecting to GND	-	0
108	DAVC	Power supply for D/A converter	-	3.2
109	AVCC	Power supply for A/D converter	-	3.2
110	AVRH	Reference voltage of A/D converter	-	3.2
111	AVSS/AVRL	Connecting to GND	-	0
112	VSS	Connecting to GND	-	0
113	INIT	Initialization switch input	I	3.2
114	TH_DETECT	Temperature detection input	I	1.2
115	NC	Connecting to GND	I	0
116	NC	Connecting to GND	I	0
117	NC	Connecting to GND	I	0
118	NC	Connecting to GND	I	0
119	NC	Connecting to GND	I	0
120	NC	Connecting to GND	I	0

11.4. CD Servo Block [CQ-C8400U/C8300U]

IC401 YESAM176

Pin No.	Port	Descriptions	I/O	(V)
1	CVSS1	GND	-	0
2	-	-	-	-
3	CVSS2	GND	-	0
4	DVSS1	I/O system (3.3V) power supply	-	3.3
5	A10	Address bus of FLASH ROM	O	0
6	HD7(NC)	No Connection	-	-
7	A11	Address bus of FLASH ROM	O	3.3
8	A12		O	3.3
9	A13		O	3.3
10	A14		O	3.3
11	A15		O	3.3
12	/CVDD1	CORE CPU system (1.6V) power supply	-	1.6
13	/HAS(NC)	No Connection	-	-
14	DVSS1	GND	-	0
15	CVSS3	GND	-	0
16	CVDD2	I/O system (3.3V) power supply	-	1.6
17	/HCS(NC)	No Connection	-	-
18	HRW(NC)	No Connection	-	-
19	READY	-	-	3.3
20	nPS	FLASH ROM selection signal	O	3.3
21	/DS(NC)	No Connection	-	-
22	/IS(NC)	No Connection	-	-
23	R/W	Lead/light signal to FLASH ROM	O	3.3
24	nMSTRB	Memory access signal	O	3.3
25	-	-	-	-
26	/MSC	-	-	3.3
27	MUTE	Mute signal output (H:Mute on)	O	0
28	-	No Connection	-	-
29	-	No Connection	-	-
30	/HOLD	-	-	3.3
31	SUBQ	SUBQ input	I	0

Pin No.	Port	Descriptions	I/O	(V)
32	-	Operation mode setting (external pull-up)	I	3.3
33	DVDD2	I/O system (3.3V) power supply	-	3.3
34	CVSS4	GND	-	0
35	(GND)	GND	I	0
36	-	No Connection	-	-
37	CVSS5	GND	-	0
38	-	No Connection	-	-
39	-	No Connection	-	-
40	DVSS2	GND	-	0
41	CLK C M	AUDIO bit clock input	I	1.6
42	SCK	Clock input	I	3.3
43	LRCK C M	AUDIO L/R identifying signal input	I	1.6
44	CDFS	Serial frame sink signal input	I	2.6
45	DATA M C	AUDIO serial data input	I	1.6
46	-	No Connection	-	-
47	SI	Serial data input	I	0
48	CLK M C	AUDIO bit clock output	O	1.6
49	SCK	Clock input	I	3.3
50	CVSS6	GND	-	0
51	-	No Connection	-	-
52	CVDD3	CORE CPU system (1.6V) power supply	-	1.6
53	LRCK M C	AUDIO L/R identifying signal output	O	1.6
54	CDFS	Serial frame sink signal input	I	2.4
55	-	No Connection	-	-
56	DVDD3	I/O system (3.3V) power supply	-	3.3
57	DVSS3	GND	-	0
58	REST SW	Mechanics deck REST SW input	I	3.3
59	DATA M C	AUDIO serial data output	O	1.6
60	SO	Serial data output	O	1.2
61	-	No Connection	-	-
62	-	No Connection	-	-
63	/NMI	-	-	3.3

Pin No.	Port	Descriptions	I/O	(V)
64	/INT0	-	-	3.3
65	/INT1	-	-	3.3
66	BLKCK	Subcode block clock pulse input	I	0
67	/INT3	-	-	3.3
68	CVDD4	CORE CPU system (1.6V) power supply	-	1.6
69	SW1	Mechanics deck SW1 input	I	0
70	CVSS7	GND	-	0
71	MCLK	Clock output (To Servo DSP)	O	3.3
72	DVSS4	GND	-	0
73	MLD	Command load signal output (To Servo DSP)	I	3.3
74	MDATA	Command data output (To Servo DSP)	O	3.3
75	DVDD4	I/O system (3.3V) power supply	-	3.3
76	DVSS5	GND	-	0
77	CLKMD1	Clock mode setting (L fixation)	I	0
78	CLKMD2	Clock mode setting (H fixation)	I	3.3
79	CLKMD3	Clock mode setting (L fixation)	I	0
80	-	No Connection	-	-
81	SW2	Mechanics deck SW2 input	I	0
82	-	No Connection	-	-
83	EMU0	-	-	0
84	EMU/ OFF	-	-	3.3
85	TDO	-	-	3.3
86	TDI	-	-	0
87	/TRST	-	-	3.3
88	TCK	-	-	0
89	TMS	-	-	3.3
90	CVSS8	GND	-	0
91	CVDD5	CORE CPU system (1.6V) power supply	-	1.6
92	(GND)	GND	I	0
93	DVSS6	GND	-	0
94	-	No Connection	-	-
95	CLKENA	Oscillation output Cainabl signal	O	3.3
96	×1	Crystal Connection	O	0

Pin No.	Port	Descriptions	I/O	(V)
97	×2	Crystal Connection	I	0
98	(VDD)	Reset signal input	I	1.0
99	D0	Data base of FLASH ROM	I/O	3.4
100	D1		I/O	0
101	D2		I/O	0
102	D3		I/O	0
103	D4		I/O	0
104	D5		I/O	0
105	A16	Address bus of FLASH ROM	O	0
106	DVSS7	GND	-	0
107	A17	Address bus of FLASH ROM	O	3.3
108	A18		O	0
109	A19		O	0
110	A20		O	0
111	CVSS9	GND	-	0
112	DVDD5	I/O system (3.3V) power supply	-	3.3
113	D6	Data bus of FLASH ROM	I/O	0
114	D7		I/O	0
115	D8		I/O	0
116	D9		I/O	0
117	D10		I/O	0
118	D11	Data bus of FLASH ROM	I/O	0
119	D12		I/O	0
120	STAT	Status signal input	I	0.4
121	D13	Data path of FLASH ROM	I/O	0
122	D14		I/O	0
123	D15		I/O	0
124	SQCK	SOCK clock output(To Servo DPS)	O	3.3
125	CVDD6	CORE CPU system (1.6V) power supply	-	1.6
126	CVSS10	GND	-	0
127	-	No Connection	-	-
128	DVSS8	GND	-	0
129	-	-	-	-
130	DVDD6	I/O system (3.3V) power supply	-	3.3
131	A0	Address bus of FLASH ROM	O	0
132	A1		O	0
133	A2		O	3.3
134	A3		O	3.3
135	/RST	Reset signal output(To Servo DSP)	O	3.3

Pin No.	Port	Descriptions	I/O	(V)
136	A4	Address bus of FLASH ROM	O	3.3
137	A5		O	0
138	A6		O	3.3
139	A7		O	3.3
140	A8		O	0
141	A9		O	3.3
142	CVDD7	CORE CPU system (1.6V) power supply	-	1.6
143	A21	-	-	0
144	DVSS9	GND	-	0

11.5. CD Servo Block [CQ-C8200U/C8100U]

IC1 : C1BB00000665

Pin No.	Port	Description	I/O	(V)
1	D.GND	Digital Ground	-	0
2	RFOK	RFOK Signal	O	4.9
3	/RESET	Reset	I	4.9
4	A0	Address 0	I	4.0
5	/STB	Strobe	I	4.9
6	/SCK	Serial Clock	I	4.9
7	SO	Serial Data Output	O	0
8	SI	Serial Data Input	I	3.0
9	/XTALEN	Crystal Oscillaton Enable	I	0
10	D.VDD	Digital Power Supply	-	4.9
11	DA.VDD	D/A Converter Power Supply	-	4.7
12	ROUT	R-channel Audio Signal Output	O	3.3
13	DA.GND	D/A Converter Ground	-	0
14	REGC	Capacitor Connection for Regulator	-	3.4
15	DA.GND	D/A Converter Ground	-	0
16	LOUT	L-channel Audio Signal Output	O	3.3
17	DA.VDD	D/A Converter Power Supply	-	4.6
18	R+(NC)	No Connection	-	-
19	R-(NC)	No Connection	-	-
20	L-(NC)	No Connection	-	-
21	L+(NC)	No Connection	-	-
22	X.VDD	Crystal Oscillator Power Supply	-	4.8
23	XTAL	Crystal Connection	O	2.3

Pin No.	Port	Description	I/O	(V)
24	/XTAL	Crystal Connection	I	2.1
25	X.GND	Crystal Oscillator Ground	-	0
26	D.VDD	Digital Power Supply	-	4.7
27	EMPH(NC)	No Connection	-	-
28	FLAG(NC)	No Connection	-	-
29	DIN	Data Input	I	2.5
30	DOUT	Data Output	O	2.5
31	SCKIN	Serial Clock Input	I	2.7
32	SCKO	Serial Clock Output	O	2.7
33	LRCKIN	LR Clock Input	I	2.5
34	LRCK	LR Clock	O	2.5
35	HOLD/ WDCK(NC)	No Connection	-	-
36	TX(NC)	No Connection	-	-
37	D.GND	Digital Ground	-	0
38	CISM(NC)	No Connection	-	-
39	LIMIT(NC)	No Connection	-	-
40	D.VDD	Digital Power Supply	-	4.9
41	LOCK	Lock	O	4.9
42	RFCK(NC)	No Connection	-	-
43	MIRR/ WFCK(NC)	No Connection	-	-
44	PLCK(NC)	No Connection	-	-
45	D.GND	Digital Ground	-	0
46	C101(NC)	No Connection	-	-
47	C102(NC)	No Connection	-	-
48	C201(NC)	No Connection	-	-
49	C202(NC)	No Connection	-	-
50	C203(NC)	No Connection	-	-
51	D.VDD	Digital Power Supply	-	4.9
52	PACK(NC)	No Connection	-	-
53	TSO(NC)	No Connection	-	-
54	TSI	Parameter Input for Text Data	I	0
55	/TSCK	Serial Clock for Text Data	I	0
56	TSTB	Text Parameter Strobe	I	0
57	D.GND	Digital Ground	-	0
58	TEST0	Test	I	0
59	TEST1	Test	I	0
60	ATEST	Analog Test	O	2.0
61	A.GND	Analog Ground	-	0
62	FD	Focus Drive	O	2.5
63	TD	Tracking Drive	O	2.5

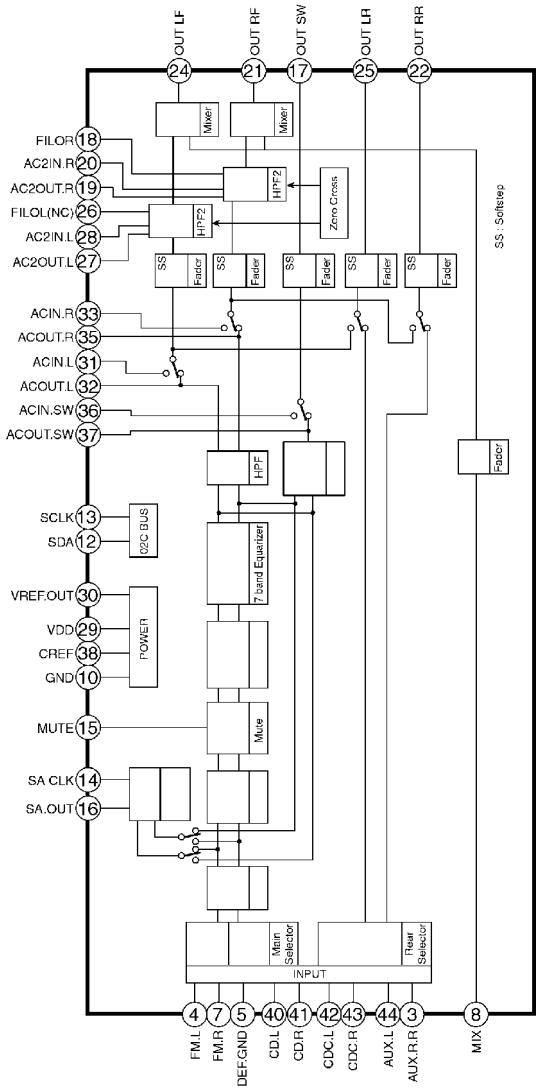
Pin No.	Port	Description	I/O	(V)
64	SD	Sled Drive	O	2.6
65	MD	Motor Drive	O	2.5
66	DAC0(NC)	No Connection	-	-
67	DAC1(NC)	No Connection	-	-
68	DAC2(NC)	No Connection	-	-
69	DAC3(NC)	No Connection	-	-
70	A.VDD	Digital Power Supply	-	4.9
71	EFM	EFM Signal	O	2.7
72	ASY	Slice Level	I	2.4
73	C3T	Capacitance Connection for 3T Signal Detecting Circuit	-	2.7
74	RFI	RF Signal Input	I	2.4
75	AGCO	AGC Amp Output	O	2.4
76	AGCI	AGC Amp Input	I	2.4
77	RFO	RF Amp Output	O	2.7
78	EQ2	Equalizer Parts Connection for RF Amp	-	2.5
79	EQ1	Equalizer Parts Connection for RF Amp	-	0.3
80	RF-	Impedance Connection to RF Amp for Negative Feedback	I	2.3
81	A.GND	Analog Ground	-	0
82	A	Error Signal Input	I	2.7
83	C(NC)	No Connection	-	-
84	B	Error Signal Input	I	2.7
85	D(NC)	No Connection	-	-
86	F	Error Signal Input	I	2.9
87	E	Error Signal Input	I	2.9
88	A.VDD	Analog Power Supply	-	4.9
89	REFOUT	Reference Output	O	2.5
90	FE-	Impedance Connection to Focus Error Amp for Negative Feedback	I	2.5
91	FEO	Focus Error Amp Output	O	2.5
92	TE-	Impedance Connection to Ttacking Error Amp for Negative Feedback	I	2.5
93	TEO	Tracking Error Amp Output	O	2.5
94	TE2	Tracking Error Amp Output Multiplied by Two	O	2.6
95	TEC	Tracking Error Comparator	I	2.5
96	A.GND	Analog Ground	-	0

Pin No.	Port	Description	I/O	(V)
97	PD	Photo Diode Signal (for Detecting Laser Power) Input	I	0.2
98	LD	Laser Diode Control Current Output	O	3.6
99	PN	APC Circuit Polarity Control	I	0
100	A.VDD	Analog Power Supply	-	4.9

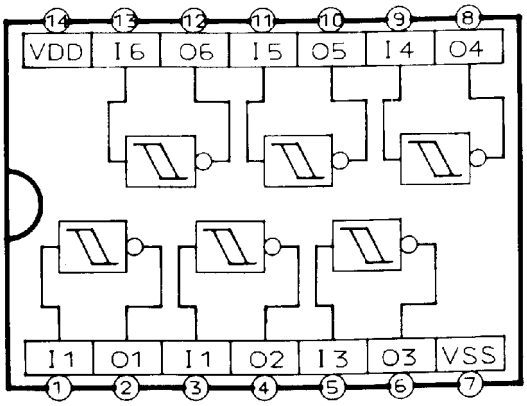
12. IC BLOCK DIAGRAM

12.1. Main Block

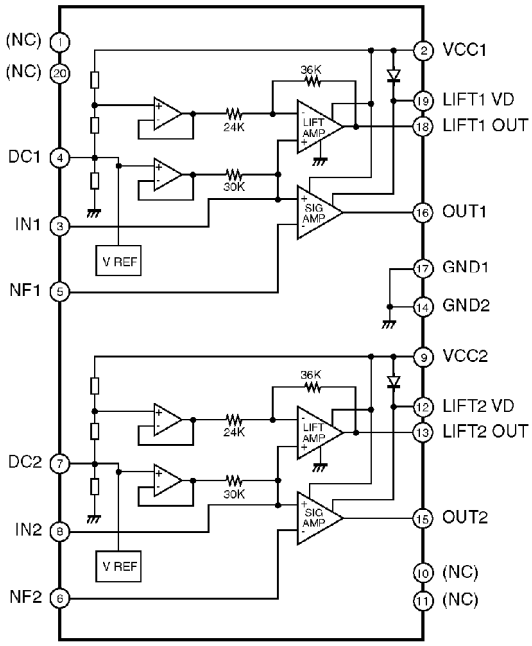
IC201 : C1BB00000796



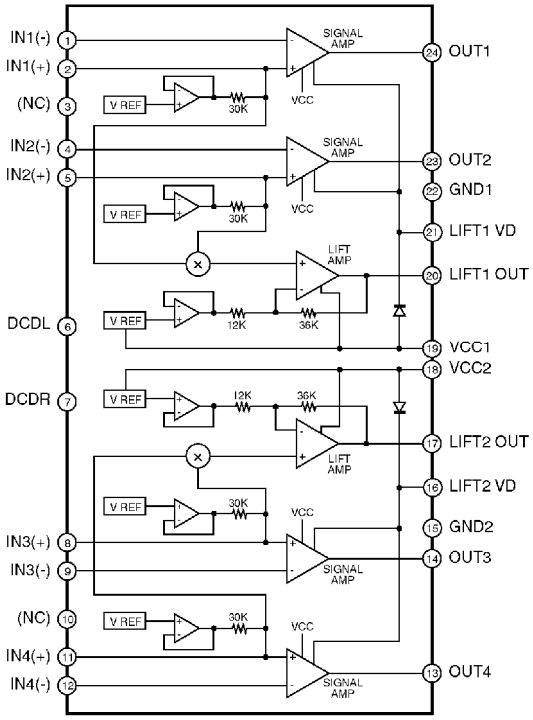
IC670 : YEAMC14584BE



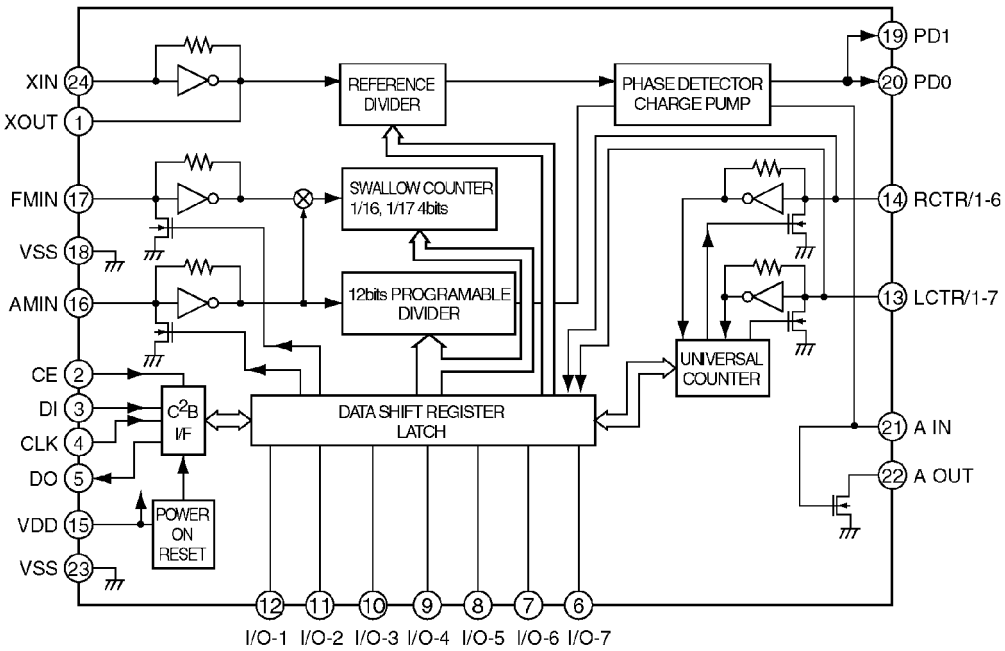
IC241 : C1BB00000650



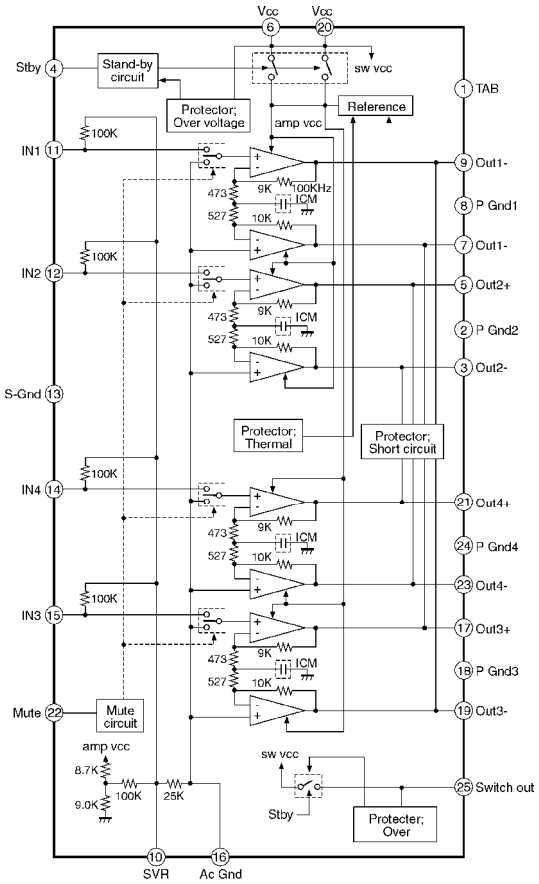
IC251 : C1BB00000649



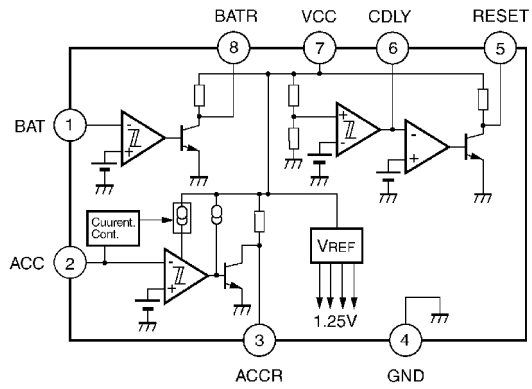
IC401 : C1BB000000644



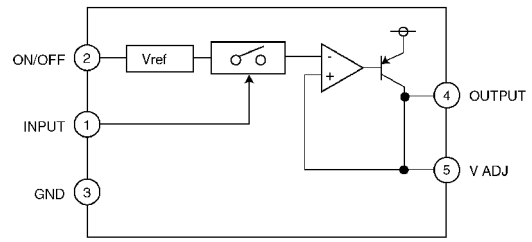
IC271 : C1EA00000034



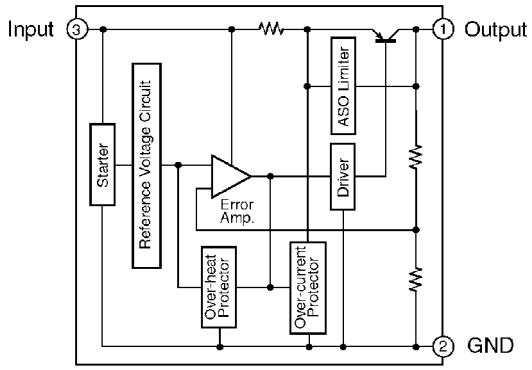
IC702 : AN8065SE1



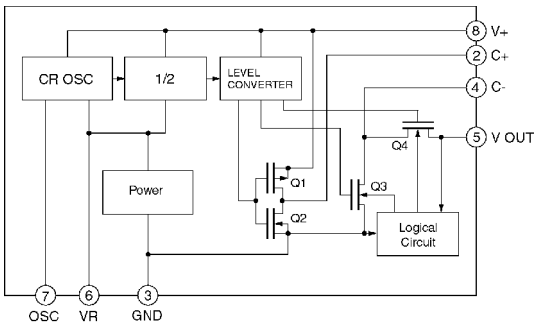
IC730, IC750 : C0CAAYG00005



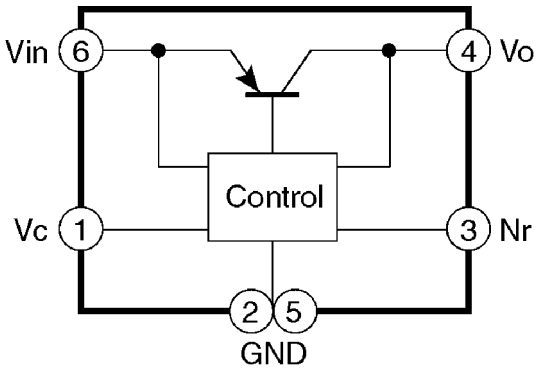
IC740 : YEAMC78L08E2



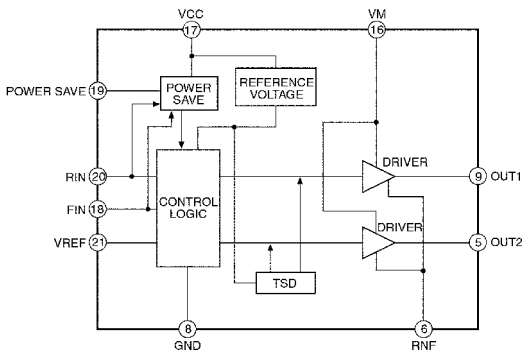
IC741 : C0DBABZ00002



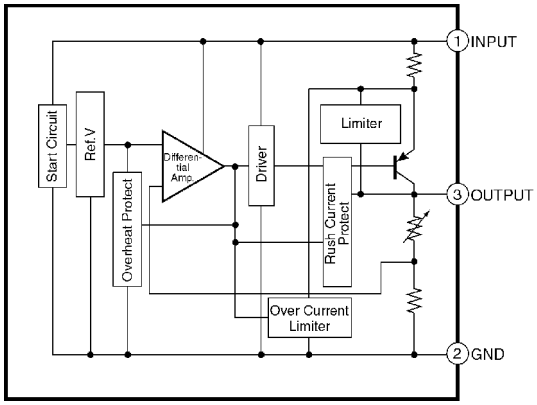
IC755 : C0CBABC00037



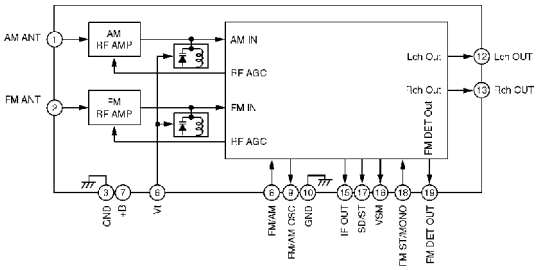
IC760 : C0GBG0000032



IC761 : C0CBAJH00001

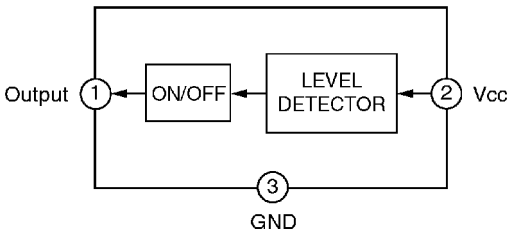


PA51 : C5BA00000109

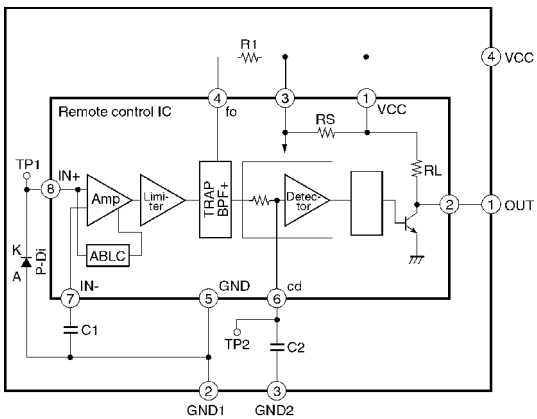


12.2. Display Block

IC902 : MN1382KTX

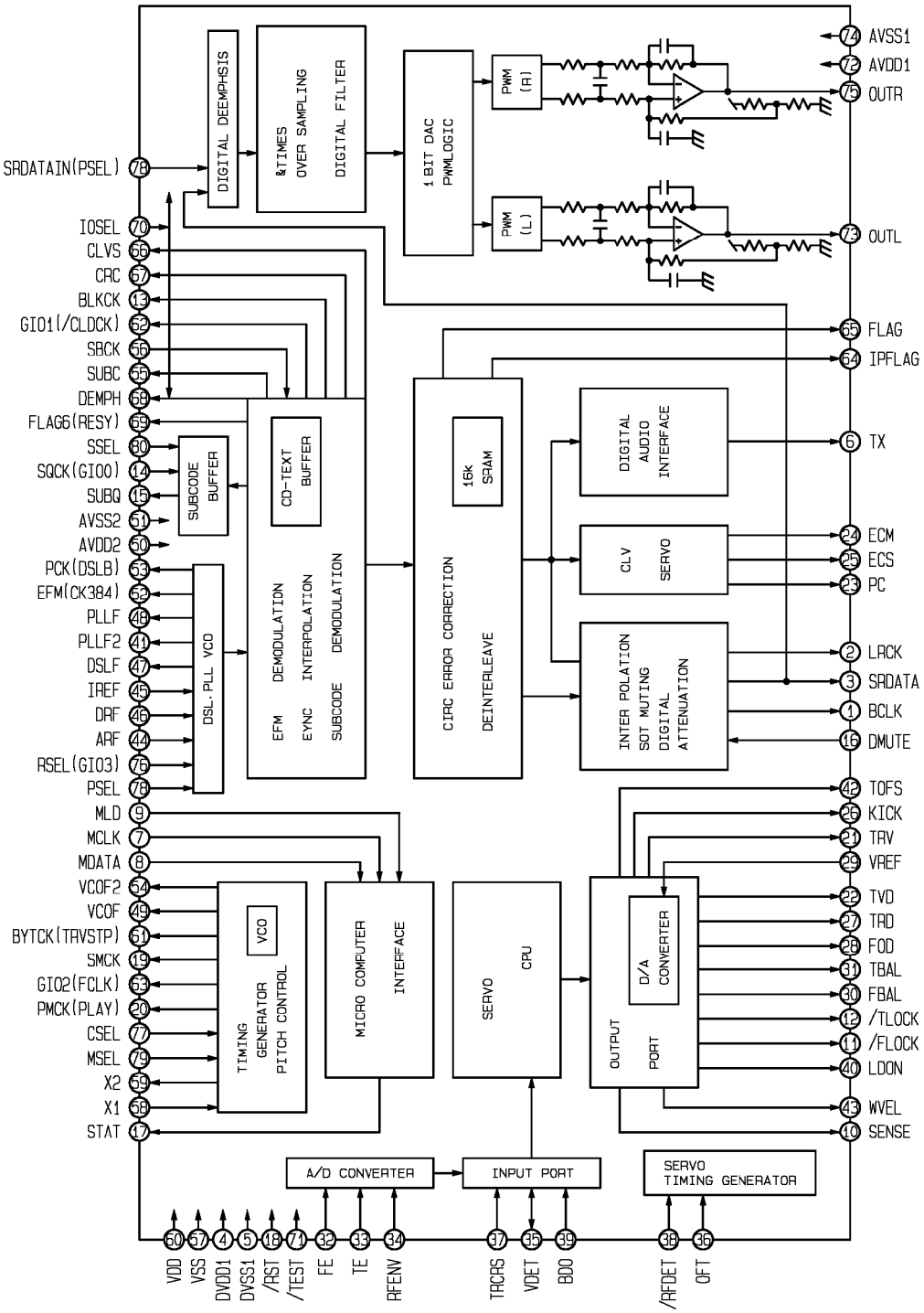


IC903 : B3MBZ0000006

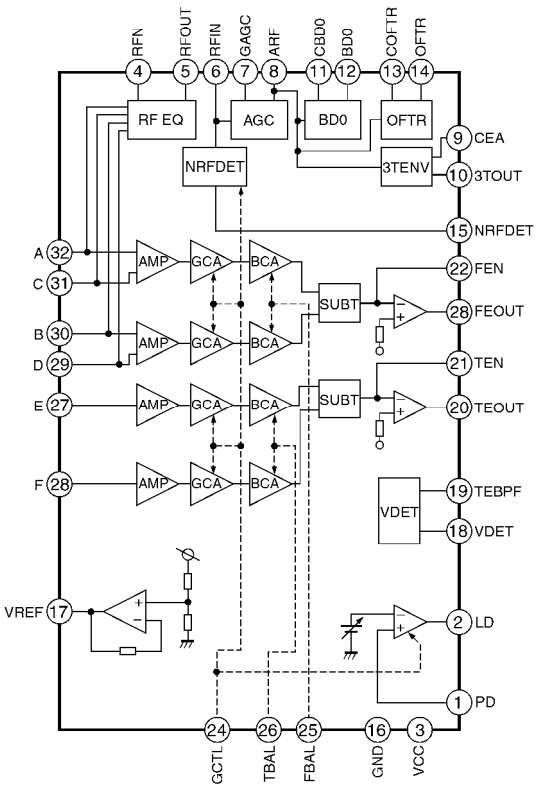


12.3. CD Servo Block [CQ-C8400U/C8300U]

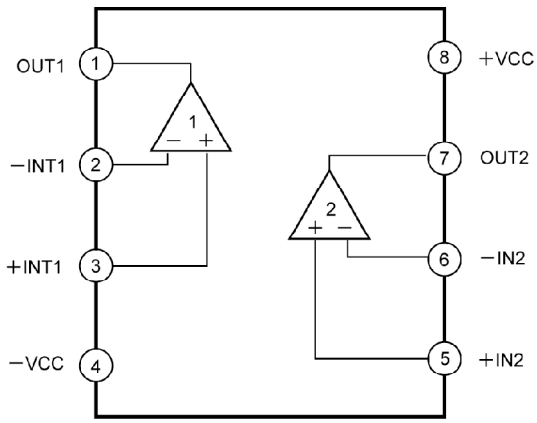
IC201 : MN6627482WB



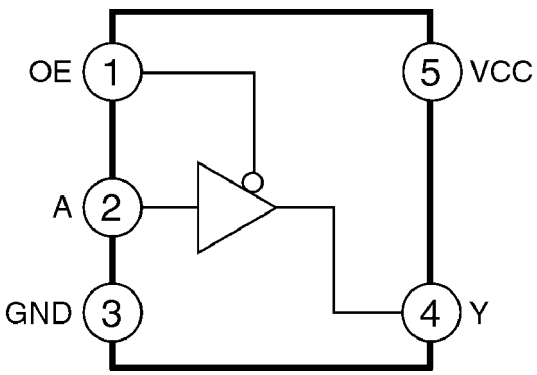
IC202 : YESAM163



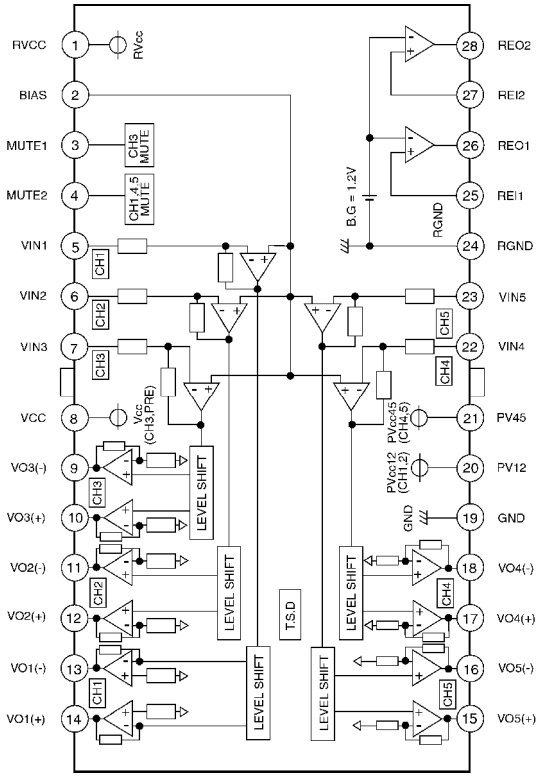
IC204 : M5218AFP



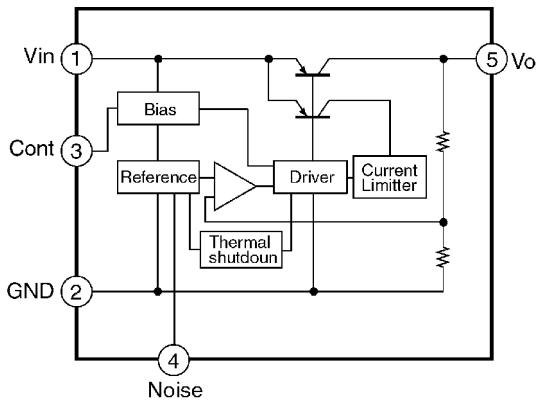
IC409 : YEASM167



IC203 : YESAM166

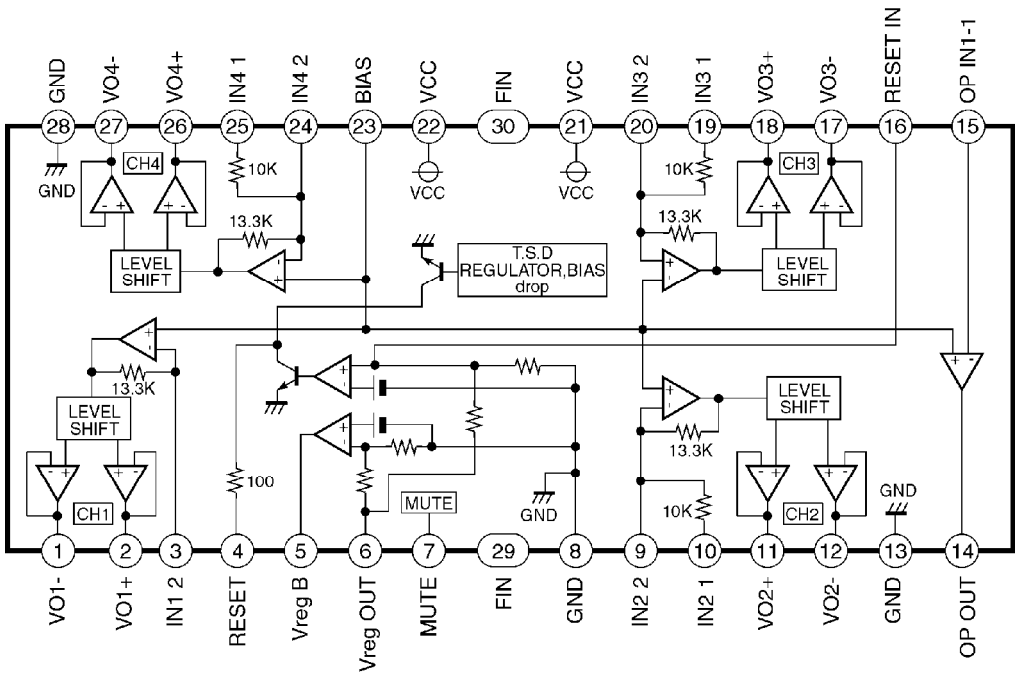


IC411 : YEASM178

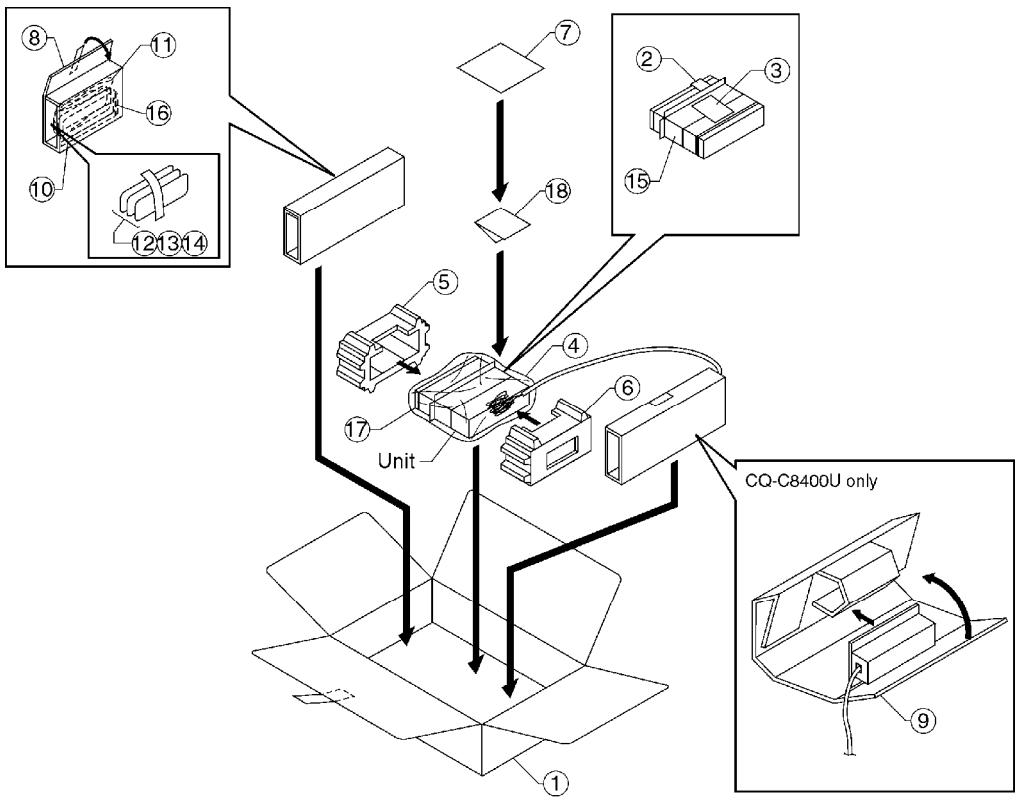


12.4. CD Servo Block [CQ-C8200U/C8100U]

IC4 : C0GBY0000024



13. PACKING PARTS LIST



- Item numbers listed below should not order regular spare parts. (not available)

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Transport Label	1	Not available
3	-	EL Wire Label	1	Not available
4	-	Polyethylene Bag	1	Not available
5	-	Packing Pad Front	1	Not available
6	-	Packing Pad Front	1	Not available
7	-	Instruction Kit	1	Not available
	YEFM284108	Operating Instructions	(1)	
	-	Warranty Card for USA	(1)	Not available
	-	Warranty Card for Canada	(1)	Not available
	-	Service Center List	(1)	Not available
8	-	Sleeve	1	Not available
9	-	Sleeve DC-DC Converter (CQ-C8400U only)	1	Not available
10	YEFA131646	Removable Face Plate Case	1	
11	YEAJ02871	Power Connector	1	
12	YEFX9992663	Remote Control Unit	1	
13	CR2025/1F	Lithium Battery	1	
14	YEP0FZ3158	Screw Kit (Nut , Screw , Bolt , Lock Cancel Plate)	1	
15	YEFX0215873	Mounting Collar	1	
16	YEFG04019	Rear Support Strap	1	
17	YEFC05605	Trim Plate	1	
18	YEP0FZ3406	Security Screw Kit	1	

14. REPLACEMENT PARTS LIST [CQ-C8400U/C8300U]

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of**

these components, use only manufacturer's specified parts.

3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

    - Order intake period is basically six months after the first shipment.

5. **"A" or "B" marks in remarks column are indicated as follows :**

    - A : CQ-C8400U
    - B : CQ-C8300U

Ref. No.	Part No.	Part Name & Description	Remarks
[E6985] Main Block			
IC's AND TRANSISTORs			
IC201	C1BB00000796	IC	
IC241	C1BB00000650	IC	
IC251	C1BB00000649	IC	
IC271	C1EA00000034	IC	
IC401	C1BB00000644	IC	
IC601	C2CBJG000377	IC	
IC630	YEAMT7ST08UL	IC	
IC650	YEAMT7ST08UL	IC	
IC670	YEAMC14584BE	IC	
IC702	AN8065SE1	IC	
IC730	C0CAAYG00005	IC	
IC740	YEAMC78L08E2	IC	
IC741	C0DBABZ00002	IC	
IC750	C0CAAYG00005	IC	
IC752	C0CAABG00004	IC	
IC755	C0CBABC00037	IC	
IC760	C0GBG0000032	IC	
IC761	C0CBAJH00001	IC	
PA51	C5BA00000109	Electronic Tuner	
Q55	YEANFP1F3PT1	Transistor	
Q220	B1GBCFNN0004	Transistor	
Q262	B1GBHBEA0004	Transistor	
Q263	B1GDCFJJ0002	Transistor	
Q266	B1GBHBEA0004	Transistor	

Ref. No.	Part No.	Part Name & Description	Remarks
Q267	B1GDCFJJ0002	Transistor	
Q320	B1GBCFNN0004	Transistor	
Q346	B1GBHBEA0004	Transistor	
Q347	B1GDCFJJ0002	Transistor	
Q362	B1GBHBEA0004	Transistor	
Q363	B1GDCFJJ0002	Transistor	
Q366	B1GBHBEA0004	Transistor	
Q367	B1GDCFJJ0002	Transistor	
Q372	YEANC114YKX	Transistor	
Q376	B1GBCFNN0004	Transistor	
Q411	YEAN2SK536TB	Transistor	
Q630	B1GBCFNN0004	Transistor	
Q633	B1GDCFJJ0002	Transistor	
Q650	YEANC114YKX	Transistor	
Q667	B1GBCFNL0001	Transistor	
Q680	YEANFP1F3PT1	Transistor	
Q701	2SD2139TA	Transistor	
Q702	YEANC4480AN	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	YEANFB1F3PT1	Transistor	
Q705	YEANC4480AN	Transistor	
Q706	2SD2139TA	Transistor	
Q730	B1GBCFNN0004	Transistor	
Q731	B1GBCFNN0004	Transistor	
Q760	B1GBCFNN0004	Transistor	
Q790	YEANHQ1F3PT1	Transistor	
Q791	YEANHQ1F3PT1	Transistor	
Q792	YEANC114YKX	Transistor	
Q793	YEANC114YKX	Transistor	
DIODEs			
D201	MA736TX	Diode	
D202	MA736TX	Diode	
D203	MA736TX	Diode	
D204	MA736TX	Diode	
D301	MA736TX	Diode	
D302	MA736TX	Diode	
D303	MA736TX	Diode	
D304	MA736TX	Diode	
D630	B3AAB0000143	Diode	
D631	MA8056LMHTX	Diode	
D635	MA8056LMHTX	Diode	
D636	MA8056LMHTX	Diode	
D637	MA152WATX	Diode	
D670	MA721TX	Diode	
D671	MA3X152A0L	Diode	
D701	YEADDAM3MA47	Diode	
D702	MA736TX	Diode	
D703	YEADRD56M3T1	Diode	
D704	MA721TX	Diode	
D705	B0BC9R600001	Diode	
D706	YEADRD82M1T1	Diode	
D707	YEADRB051L40	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D708	MA3X152K0L	Diode	
D710	MA721TX	Diode	
D720	MA4091MTA	Diode	
D721	MA721TX	Diode	
D740	MA3X74000L	Diode	
D760	YEADRD51M2T1	Diode	
D761	YEADRD30M2T1	Diode	
D770	MA721TX	Diode	
D771	MA721TX	Diode	
D772	MA4051LMTA	Diode	
CAPACITORs			
C52	YECUS1H470JC	Ceramic, 47PF 50WV	
C53	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C54	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C55	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C56	F3F1E105A001	Tantalum, 1 μF 25WV	
C61	YECUS1E273KX	Ceramic, 0.027 μF 25WV	
C62	YECUS1E273KX	Ceramic, 0.027 μF 25WV	
C65	F1J1H1020024	Ceramic, 1000PF 50WV	
C206	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C213	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C215	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C217	YECUS1C334KX	Ceramic, 0.33 μF 16WV	
C220	F2A1H2R2A154	Electrolytic, 2.2 μF 50WV	
C244	YECUV2A152KX	Ceramic, 1500PF 100WV	
C245	F2A1C101A150	Electrolytic, 100 μF 16WV	
C246	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C247	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C248	F2A1C470A150	Electrolytic, 47 μF 16WV	
C249	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C251	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C254	F1J1H152A675	Ceramic, 1500PF 50WV	
C255	F2A1C101A150	Electrolytic, 100 μF 16WV	
C257	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C259	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C261	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C263	F2A1HR470035	Electrolytic, 0.47 μF 50WV	
C265	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C267	F2A1HR470035	Electrolytic, 0.47 μF 50WV	
C271	F1J1H472A675	Ceramic, 4700PF 50WV	
C272	F1J1H472A675	Ceramic, 4700PF 50WV	
C274	F2A1C4700073	Electrolytic, 47 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C275	F1J1C1050013	Ceramic, 1 μF 16WV	
C278	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C279	F2A1E2220043	Electrolytic, 2200 μF 25WV	A
C279	F2A1C4720027	Electrolytic, 4700 μF 16WV	B
C306	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C313	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C315	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C317	YECUS1C334KX	Ceramic, 0.33 μF 16WV	
C320	F2A1H2R2A154	Electrolytic, 2.2 μF 50WV	
C323	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C324	F2A1H2R2A154	Electrolytic, 2.2 μF 50WV	
C325	F2A1H2R2A154	Electrolytic, 2.2 μF 50WV	
C326	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C327	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C328	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C330	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C331	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C345	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C349	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C351	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C354	F1J1H152A675	Ceramic, 1500PF 50WV	
C355	F2A1C101A150	Electrolytic, 100 μF 16WV	
C357	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C358	F2A1C470A150	Electrolytic, 47 μF 16WV	
C359	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C361	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C363	F2A1HR470035	Electrolytic, 0.47 μF 50WV	
C365	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C367	F2A1HR470035	Electrolytic, 0.47 μF 50WV	
C371	F1J1H472A675	Ceramic, 4700PF 50WV	
C372	F1J1H472A675	Ceramic, 4700PF 50WV	
C374	F2A1H2R20044	Electrolytic, 2.2 μF 50WV	
C375	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C378	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C401	F1J1H120A034	Ceramic, 12PF 50WV	
C402	F1J1H120A034	Ceramic, 12PF 50WV	
C403	F2A0J101A164	Electrolytic, 100 μF 6.3WV	
C404	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C405	F1H1H101A231	Ceramic, 100PF 50WV	
C411	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C412	YECUS1E223KX	Ceramic, 0.022 μF 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C413	ECQV1H224JL2	Plastic Film, 0.22 μF 50WV	
C414	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C601	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C602	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C603	F2A0J331A164	Electrolytic, 330 μF 6.3WV	
C604	EECS0HD473H	Electrolytic, 0.047 μF 5.5WV	
C605	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C606	F1J1H180A034	Ceramic, 18PF 50WV	
C607	F1J1H180A034	Ceramic, 18PF 50WV	
C608	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C609	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C610	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C631	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C632	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C633	F2A1C470A150	Electrolytic, 47 μF 16WV	
C634	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C650	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C670	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C671	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C680	F2A1H2R2A154	Electrolytic, 2.2 μF 50WV	
C701	YECUS1C154KX	Ceramic, 0.15 μF 16WV	
C702	F2A1C1020069	Electrolytic, 1000 μF 16WV	
C703	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C704	F2A0J470A164	Electrolytic, 47 μF 6.3WV	
C705	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C706	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C707	F2A1C1020069	Electrolytic, 1000 μF 16WV	
C708	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C709	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C710	YECUS1H103ZF	Ceramic, 0.01 μF 50WV	
C711	YECUS1H103ZF	Ceramic, 0.01 μF 50WV	
C712	F2A1A101A144	Electrolytic, 100 μF 10WV	
C713	YECUS1C474KX	Ceramic, 0.47 μF 16WV	
C721	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C722	F2A1A101A144	Electrolytic, 100 μF 10WV	
C730	F1K1E334A022	Ceramic, 0.33 μF 25WV	
C731	YECUX1C334KX	Ceramic, 0.33 μF 16WV	
C732	EEAFC1C560H	Electrolytic, 56 μF 16WV	
C740	YECUS1E224ZF	Ceramic, 0.22 μF 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C741	YECUS1C224ZF	Ceramic, 0.22 μF 16WV	
C742	F2A1C470A150	Electrolytic, 47 μF 16WV	
C743	ECEA1VKS100I	Electrolytic, 10 μF 35WV	
C744	ECEA1VKS100I	Electrolytic, 10 μF 35WV	
C750	EEAFC1C560H	Electrolytic, 56 μF 16WV	
C751	YECUS1E224ZF	Ceramic, 0.22 μF 25WV	
C752	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C753	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C754	EEAFC0J560H	Electrolytic, 56 μF 6.3WV	
C755	YECUS1C334KX	Ceramic, 0.33 μF 16WV	
C756	YECUS1C334KX	Ceramic, 0.33 μF 16WV	
C757	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C758	F2A0J470A164	Electrolytic, 47 μF 6.3WV	
C760	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C761	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C762	F2A1C470A150	Electrolytic, 47 μF 16WV	
C763	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C764	YECUS1E224ZF	Ceramic, 0.22 μF 25WV	
C772	F2A0J470A164	Electrolytic, 47 μF 6.3WV	
C795	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
RESISTORs			
C202	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
C302	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
J401	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J402	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J403	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J404	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J411	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J412	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J413	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J414	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J501	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J503	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J504	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J506	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J507	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J508	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J509	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J510	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J511	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
J512	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J513	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J514	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J515	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J517	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J518	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J520	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J521	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J522	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J523	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J524	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J525	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J526	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J527	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J528	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J529	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J530	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J531	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J532	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J533	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J534	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J535	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J536	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J537	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J538	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J539	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J540	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J541	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J542	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J543	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J544	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J545	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J546	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J547	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J548	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J549	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J550	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J551	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J552	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J553	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J554	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J555	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J558	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J559	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
L290	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
L291	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L292	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L295	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
L296	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
L298	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L299	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L393	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L394	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L395	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
L396	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
L398	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L399	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R50	ERJ6GEYJ5R6V	Chip, 5.6 Ω 1/10W	
R54	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R55	ERJ6GEYJ221V	Chip, 220 Ω 1/10W	
R59	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R65	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R201	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R202	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R203	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R207	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R211	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R212	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R213	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R214	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R215	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R216	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R217	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R220	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R221	ERJ6GEYJ124	Chip, 120k Ω 1/10W	
R244	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R245	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R248	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R252	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R253	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	
R254	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R255	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	
R261	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R262	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R263	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R265	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R266	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R267	ERJ8GEYJ561V	Chip, 560 Ω 1/8W	
R275	ERJ8GEYJ223V	Chip, 22k Ω 1/8W	
R301	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R302	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R303	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R307	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R311	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R312	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R313	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R314	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R315	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R316	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R317	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R320	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R321	ERJ6GEYJ124	Chip, 120k Ω 1/10W	
R323	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R324	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R325	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R326	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R330	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R345	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R346	ERJ3GEYJ223V	Chip, 22k Ω 1/16W	
R348	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R352	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R353	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	
R354	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R355	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	
R361	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R362	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R363	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R365	ERJ6GEYJ560	Chip, 56 Ω 1/10W	
R366	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R367	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R373	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R375	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R376	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R401	ERJ3GEYJ152V	Chip, 1.5k Ω 1/16W	
R402	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R403	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R404	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R405	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R406	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R407	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R408	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R409	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R410	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R411	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R413	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R414	ERJ8GEYJ561V	Chip, 560 Ω 1/8W	
R417	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R601	ERJ6GEYJ432V	Chip, 4.3k Ω 1/10W	
R602	ERJ3GEYJ432V	Chip, 4.3k Ω 1/16W	
R603	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R604	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R605	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R607	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R608	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R609	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	B
R610	ERJ6GEYJ473	Chip, 47k Ω 1/10W	A
R612	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R613	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R614	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R615	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R616	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	A
R619	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R620	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R621	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R622	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R625	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R626	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R627	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R628	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R629	ERJ8GEYJ104V	Chip, 100k Ω 1/8W	
R630	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R631	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R632	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R634	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R638	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R639	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R640	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R643	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R646	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R653	ERJ3GEYJ512V	Chip, 5.1k Ω 1/16W	
R654	ERJ6GEYJ512V	Chip, 5.1k Ω 1/10W	
R655	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R656	ERJ6GEYJ272	Chip, 2.7k Ω 1/10W	
R657	ERJ6GEYJ272	Chip, 2.7k Ω 1/10W	
R659	ERJ6GEYJ272	Chip, 2.7k Ω 1/10W	
R660	ERJ6GEYJ272	Chip, 2.7k Ω 1/10W	
R662	ERJ8GEYJ472V	Chip, 4.7k Ω 1/8W	
R663	ERJ6GEYJ512V	Chip, 5.1k Ω 1/10W	
R664	ERJ6GEYJ512V	Chip, 5.1k Ω 1/10W	
R667	ERJ6GEYJ103	Chip, 10k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R670	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R671	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R672	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R673	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R680	ERJ6GEYJ271	Chip, 270 Ω 1/10W	
R681	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R682	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R701	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R702	ERJ6GEYJ274	Chip, 270k Ω 1/10W	
R703	ERJ6GEYJ433V	Chip, 43k Ω 1/10W	
R704	ERJ8GEYJ4R7V	Chip, 4.7 Ω 1/8W	
R705	ERJ8GEYJ4R7V	Chip, 4.7 Ω 1/8W	
R706	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R708	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R709	ERDS1FJ821T	Carbon, 820 Ω 1/2W	
R710	ERDS1FJ821T	Carbon, 820 Ω 1/2W	
R711	ERJ8GEYJ1R0V	Chip, 1 Ω 1/8W	
R712	ERJ8GEYJ1R0V	Chip, 1 Ω 1/8W	
R713	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R714	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R715	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R716	ERJ6GEYJ224	Chip, 220k Ω 1/10W	
R717	ERJ6GEYJ433V	Chip, 43k Ω 1/10W	
R720	ERJ8GEYJ101V	Chip, 100 Ω 1/8W	
R721	ERJ8GEYJ101V	Chip, 100 Ω 1/8W	
R730	ERJ6ENF6802V	Chip, 68k Ω 1/10W	
R731	ERJ6ENF2203V	Chip, 220k Ω 1/10W	
R732	ERJ6ENF1802V	Chip, 18k Ω 1/10W	
R733	ERJ6ENF1303V	Chip, 130k Ω 1/10W	
R734	ERJ6ENF2201V	Chip, 2.2k Ω 1/10W	
R742	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R750	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R751	ERJ6ENF8201V	Chip, 8.2k Ω 1/10W	
R752	ERJ6ENF2201V	Chip, 2.2k Ω 1/10W	
R755	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R760	ERJ6GEYJ162V	Chip, 1.6k Ω 1/10W	
R761	ERDS1FJ3R9	Carbon, 3.9 Ω 1/2W	
R772	ERJ8GEYJ221V	Chip, 220 Ω 1/8W	
R773	ERJ8GEYJ221V	Chip, 220 Ω 1/8W	
R780	ERJ8GX0R00V	Chip, 0 Ω 1/8W	B
R781	ERJ8GX0R00V	Chip, 0 Ω 1/8W	B
R782	ERJ8GX0R00V	Chip, 0 Ω 1/8W	B
R783	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	A
R784	ERJ6GEYJ473	Chip, 47k Ω 1/10W	A
R790	ERJ6GEYJ223	Chip, 22k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R791	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R795	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
CONNECTORs			
CN1	K1NZ16H00001	Connector, 16P	
CN201	K2KF29Z00025	Plug, 4P	
CN251	YEAE012503	Plug, 4P	
CN253	YEAJ011604	Plug, 4P	
CN301	K2KF29Z00024	Plug, 4P	
CN351	K2KF29Z00013	Plug, 4P	
CN601	K1MN16B00130	Connector, 16P	
CN650	K1KA18A00074	Connector, 18P	
CN670	K1PQ07A00003	Connector, 7P	
CN680	YEAE012307	Connector, DIN8P	
CN701	K1FA116B0028	Connector, 16P	
CN760	YEAE5339802	Connector, 2P	
COILs			
L50	G1C150K00011	Coil	
L52	G1CR56K00009	Coil	
L401	YELT03N101JT	Coil	
L601	YELT03N330JT	Coil	
L602	YELT03N101JT	Coil	
L603	YELT03N330JT	Coil	
L630	ELEAR330KA	Choke Coil	
L701	YELTBL01R1AT	Coil	
L702	G0A161J00001	Coil	
SWITCHes			
SW601	K0L1BA000022	Switch	
SW602	K0L1BA000023	Switch	
CRYSTALs			
XL401	H0D720400006	Crystal Oscillator	
XL601	H0J419400009	Crystal Oscillator	
LAMP			
Z50	YEAL02010T	Lamp	
NETWORK RESISTOR			
R606	EXBV8V102JV	Network Resistor	
FILTER			
CF51	YEXC07T009	Filter	

Ref. No.	Part No.	Part Name & Description	Remarks
THERMISTOR			
PT701	YERT7AR4R7MT	Thermistor	
[E9413] Display Block			
IC's AND TRANSISTORs			
IC900	C2DBKJ000188	IC	
IC901	C3FBPD000099	IC	
IC902	MN1382KTX	IC	
IC903	B3MBZ0000006	IC	
Q901	B1GBCFNN0009	Transistor	
Q902	B1GDCFNN0002	Transistor	
Q903	B1GBCFNN0004	Transistor	
Q904	B1GBCFNN0004	Transistor	
Q913	YEANSSTA06T	Transistor	
Q914	YEANSSTA06T	Transistor	
DIODEs			
D901	MA8056LMHTX	Diode	
D903	MAZ80390LL	Diode	
D904	MA8056LMHTX	Diode	
D905	MA8056LMHTX	Diode	
D906	MAZ81800ML	Diode	
D907	B3AEB0000037	Diode	
D909	MA152WKTX	Diode	
D910	MAZ80390LL	Diode	
D911	MAZ80390LL	Diode	
D912	MAZ80390LL	Diode	
D913	MAZ80390LL	Diode	
D914	MAZ80390LL	Diode	
D916	MA721TX	Diode	
D917	MAZ80390LL	Diode	
D918	MAZ80390LL	Diode	
D919	MAZ80390LL	Diode	
D920	MAZ80390LL	Diode	
D921	MAZ80390LL	Diode	
CAPACITORs			
C901	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C902	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C903	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C904	ECST1CX106R	Electrolytic, 10 μF 16WV	
C905	F1H1H100A226	Ceramic, 10PF 50WV	
C906	F1H1H100A226	Ceramic, 10PF 50WV	
C907	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C908	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C909	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C910	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C911	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C912	ECST1CX106R	Electrolytic, 10 μ F 16WV	
C913	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C914	YECUS1C105ZF	Ceramic, 1 μ F 16WV	
C915	YECUS1C105ZF	Ceramic, 1 μ F 16WV	
C916	F1J1H102A672	Ceramic, 1000PF 50WV	
C919	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C925	F2H1C2200001	Electrolytic, 22 μ F 16WV	
C926	F1J1H562A675	Ceramic, 5600PF 50WV	
C927	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C928	F0F2A2230001	Plastic Film, 0.022 μ F 100WV	
C929	F1L3F1200001	Ceramic, 12PF 3160WV	
C931	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C932	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C933	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C934	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C935	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C936	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C937	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C938	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C939	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C940	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C973	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C974	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
RESISTORs			
FB901	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
FB902	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
FB903	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R901	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R902	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R903	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R904	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R905	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R906	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R907	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R908	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R909	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R910	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R911	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R912	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R913	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R914	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R915	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R916	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R917	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R918	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R919	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R920	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R921	ERJ3GEYJ274V	Chip, 270k Ω 1/16W	
R923	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R924	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R925	ERJ3GEYJ302V	Chip, 3k Ω 1/16W	
R926	ERJ3GEYJ302V	Chip, 3k Ω 1/16W	
R927	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R928	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R929	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R931	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R932	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R933	ERJ3GEYJ821V	Chip, 820 Ω 1/16W	
R934	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R935	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R936	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R937	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R938	ERJ3GEYJ124V	Chip, 120k Ω 1/16W	
R939	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R947	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R948	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R950	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R951	ERJ3GEYJ153V	Chip, 15k Ω 1/16W	
R953	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R954	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R961	ERJ6GEYJ681	Chip, 680 Ω 1/10W	
R962	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R963	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R969	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
CONNECTORs			
CN901	K1NZ16A00001	Connector, 16P	
CN902	K1MN40B00006	Connector, 40P	
COIL			
L907	G1C101M00014	Coil	
SWITCHes			
SW901	K9AA024A0009	Switch	

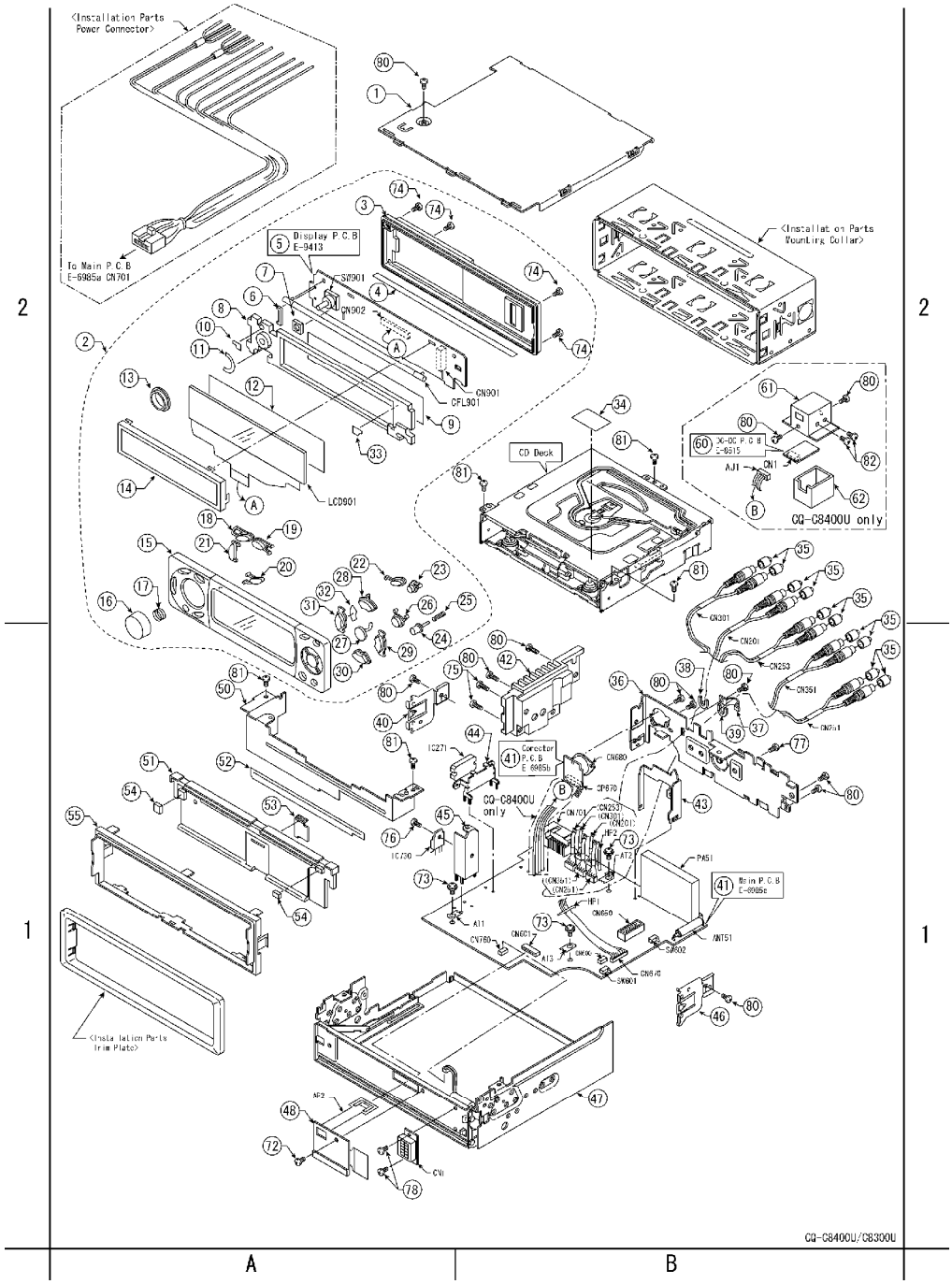
Ref. No.	Part No.	Part Name & Description	Remarks
SW902	K0H1BA000445	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW906	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
CRYSTAL			
XL900	H0J125500008	Crystal Oscillator	
LCD			
LCD901	L5F000000007	LCD	
NETWORK RESISTORs			
RA901	D1H822140004	Network Resistor	
RA902	D1H822140004	Network Resistor	
RA903	D1H822140004	Network Resistor	
RA904	D1H822140004	Network Resistor	
RA905	D1H822140004	Network Resistor	
RA906	D1H822140004	Network Resistor	
RA907	D1H822140004	Network Resistor	
RA908	D1H822140004	Network Resistor	
RA909	D1H822140004	Network Resistor	
RA910	D1H822140004	Network Resistor	
RA911	D1H822140004	Network Resistor	
THERMISTOR			
TH900	D4CC14730002	Thermistor	
TRANSFORMER			
L908	G5C1AAA00001	Transformer	
DISPLAY TUBE			
CFL901	A2CA00000044	Display Tube	
[E8515] DC-DC Converter Block			
IC's AND TRANSISTORs			
IC1	C1BA00000150	IC	A
IC2	YEAMM51945AF	IC	A

Ref. No.	Part No.	Part Name & Description	Remarks
DIODE			
D1	MA3X152K0L	Diode	A
CAPACITORs			
C1	ECA1CM332B	Electrolytic, 3300 μF 16WV	A
C2	ECA1EM332B	Electrolytic, 3300 μF 25WV	A
C3	ECA1HM3R3B	Electrolytic, 3.3 μF 50WV	A
C5	ECEA1HKS2R2	Electrolytic, 2.2 μF 50WV	A
C6	F1J1H103A513	Ceramic, 0.01 μF 50WV	A
C8	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	A
C9	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	A
C10	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	A
C11	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	A
C12	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	A
C13	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	A
C14	YECUS1H103ZF	Ceramic, 0.01 μF 50WV	A
C15	YECUS1H103ZF	Ceramic, 0.01 μF 50WV	A
RESISTORs			
R1	ERJ6GEYJ224	Chip, 220k Ω 1/10W	A
R2	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	A
R3	ERJ6GEYJ473	Chip, 47k Ω 1/10W	A
R4	ERJ8GEYJ560V	Chip, 56 Ω 1/8W	A
CONNECTOR			
CN1	YEAEPSVH05A	Connector, 5P	A
COILs			
L1	YETQ022T161	Coil	A
L2	YELTB2R2RT	Coil	A
L3	YELTB2R2RT	Coil	A
L4	YELTB2R2RT	Coil	A
L5	YELT03N330JT	Coil	A
Accessories			
PRINTINGs			
	YEFM284108	Operating Instructions	
INSTALLATION PARTs			

Ref. No.	Part No.	Part Name & Description	Remarks
	YEFA131646	Removable Face Plate Case	
	YEAJ02871	Power Connector	
	YEFX9992663	Remote Control Unit	
	CR2025/1F	Lithium Battery	⚠
	YEP0FZ3158	Screw Kit (Nut, Screw, Bolt, Lock Cancel Plate)	
	YEFX0215873	Mounting Collar	
	YEFG04019	Rear Support Strap	
	YEFC05605	Trim Plate	
	YEP0FZ3406	Security Screw Kit	
Mechanical Parts			
MISCELLANEOUS			
AJ1	YEAJ02773	Power Cord w/Plug	A
ANT51	YEAA10090	Antenna Receptacle	
AP2	YEAP2879	Flexible PCB	
AT1	K4ZZ01000048	Terminal	
AT2	K4ZZ01000048	Terminal	
AT3	K4ZZ01000048	Terminal	
HP1	YEAT03324	Terminal	
HP2	YEAT03324	Terminal	
1	YEFA031898	Upper Cover	
2	YEP0FX5311	Removable Face Plate Unit	RTL A
2	YEP0FX5335	Removable Face Plate Unit	RTL B
3	YEFA131825	Back Cover, Detachable	
4	YEFV021965	Magnetic Shield	
5	YEP0PT9413Z9	Display PCB w/Component	RTL
6	YEFK061121	Holder	
7	YEFK061115	Holder	
8	YEFX0012362	Transparent Plate	
9	YEFX9993012	Shad	
10	YEFV021963	Optical Shade	
11	YEFV022002	Color Screen	
12	YEFV021977	Optical Shade, LCD901	
13	YEFX0012367	Transparent Plate, VOL	
14	YEFX0216286	Case, LCD901	
15	YESFC02114	Escutcheon Ass'y, Detachable	A
15	YESFC02113	Escutcheon Ass'y, Detachable	B
16	YEFE07520	Knob, VOLUME	
17	YEFX0052572	Moving Plate	
18	YEFE137877	Button, MUTE	
19	YEFE137900	Button, SQ	
20	YEFE137901	Button, D.M	
21	YEFE137899	Button, SOURCE	
22	YEFE137897	Button, MEMU	
23	YEFE137891	Button, TILT/OPEN	
24	YEFE137903	Button, Releas	
25	YEFX0052729	Spring	
26	YEFE137898	Button, DISP	
27	YEFE137887	Button, BAND/SET/APM	
28	YEFE137879	Button, P.SET UP	
29	YEFE137895	Button, TUNE/TRACK >	
30	YEFE137883	Button, P.SET DOWN	

Ref. No.	Part No.	Part Name & Description	Remarks
31	YEFE137896	Button, TUNE/TRACK <	
32	YEFV021975	Optical Shade	
33	YEFV021964	Optical Shade	
34	YEFM031414	Laser Seal	
35	YEFR04187	Cap	
36	YEFA08601	Rear Plate	A
36	YEFA08602	Rear Plate	B
37	YEFX007686	Clamper, DC-DC Converter	A
37	YEFX007677	Clamper, CN251, CN351	B
38	YEFX007676	Clamper, CN253, CN201, CN301	
39	YEFX007685	Clamper, CN251, CN351	A
40	YEFX0216132	Bracket (L)	
41	YEP0PT6985Z9	Main PCB w/Component	RTL A
41	YEP0PT6985Y9	Main PCB w/Component	RTL B
42	YEFF011144	Heat Sink	
43	YEFX0216270	Bracket, IC750	
44	YEFX0213945B	Bracket, IC271	
45	YEFX0216269	Bracket, IC730	
46	YEFX0216133	Bracket (R)	
47	YEP9FX215	Drive Mechanism Ass'y	
48	YEFA131827	Flexible PCB Case	
50	YEFA07669	Front Plate	
51	YEFC028113	Rear Cover, Escutcheon	
52	YEFS02431	Pad, Escutcheon	
53	YEFX0012368	Transparent Plate, Escutheon	
54	YEFS012112	Pad, Escutcheon	
55	YEFC028112	Front Cover, Escutcheon	
60	YEP0PT8515Y9	DC-DC Conv. PCB w/Component	RTL A
61	YEFA031565	Upper Cover, DC-DC Converter	A
62	YEFA131338	Case, DC-DC Converter	A
72	YEJS06404	Binding Screw	
73	YEJT03333	Tapping Screw	
74	XQN2+BG8FZ	Tapping Screw, 2*8	
75	XSB3+14FX	Binding Screw, 3*14	
76	XSB3+6FX	Binding Screw, 3*6	
77	XSB26+8FX	Binding Screw, 2.6*8	
78	XQN2+C4FZ	Binding Screw, 2*4	
80	XTB3+6FFX	Screw, 3x6	
81	XTB26+6FFX	Tapping Screw, 2.6*6	
82	XYN3+F14FX	Screw w/Washer, 3*14	A

15. EXPLODED VIEW [CQ-C8400/C8300U]



16. REPLACEMENT PARTS LIST [CQ-C8200U/C8100U]

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**

3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

   - Order intake period is basically six months after the first shipment.

5. "C" or "D" marks in remarks column are indicated as follows :

   - C : CQ-C8200U
   - D : CQ-C8100U

Ref. No.	Part No.	Part Name & Description	Remarks
[E6985] Main Block			
IC's AND TRANSISTORs			
IC201	C1BB00000796	IC	
IC241	C1BB00000650	IC	C
IC251	C1BB00000649	IC	C
IC271	C1EA00000034	IC	
IC401	C1BB00000644	IC	
IC601	C2CBJG000378	IC	
IC630	YEAMT7ST08UL	IC	
IC670	YEAMC14584BE	IC	
IC702	AN8065SE1	IC	
IC730	C0CAAYG00005	IC	
IC740	YEAMC78L08E2	IC	
IC741	C0DBABZ00002	IC	
IC750	C0CAAYG00005	IC	
IC752	YEAMPC7805H	IC	
IC755	C0CBABC00037	IC	
IC760	C0GBG0000032	IC	
IC761	C0CBAJH00001	IC	
PA51	C5BA00000109	Electronic Tuner	
Q55	YEANFP1F3PT1	Transistor	
Q220	B1GBCFNN0004	Transistor	
Q262	B1GBHBEA0004	Transistor	
Q263	B1GDCFJJ0002	Transistor	
Q266	B1GBHBEA0004	Transistor	
Q267	B1GDCFJJ0002	Transistor	
Q320	B1GBCFNN0004	Transistor	

Ref. No.	Part No.	Part Name & Description	Remarks
Q346	B1GBHBEA0004	Transistor	
Q347	B1GDCFJJ0002	Transistor	
Q362	B1GBHBEA0004	Transistor	
Q363	B1GDCFJJ0002	Transistor	
Q366	B1GBHBEA0004	Transistor	
Q367	B1GDCFJJ0002	Transistor	
Q372	YEANC114YKX	Transistor	
Q376	B1GBCFNN0004	Transistor	
Q411	YEAN2SK536TB	Transistor	
Q630	B1GBCFNN0004	Transistor	
Q633	B1GDCFJJ0002	Transistor	
Q667	B1GBCFNL0001	Transistor	
Q680	YEANFP1F3PT1	Transistor	
Q701	2SD2139TA	Transistor	
Q702	YEANC4480AN	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	YEANFB1F3PT1	Transistor	
Q705	YEANC4480AN	Transistor	
Q706	2SD2139TA	Transistor	
Q730	B1GBCFNN0004	Transistor	
Q731	B1GBCFNN0004	Transistor	
Q760	B1GBCFNN0004	Transistor	
Q790	YEANHQ1F3PT1	Transistor	
Q791	YEANHQ1F3PT1	Transistor	
Q792	YEANC114YKX	Transistor	
Q793	YEANC114YKX	Transistor	
DIODEs			
D201	MA736TX	Diode	
D202	MA736TX	Diode	
D203	MA736TX	Diode	
D204	MA736TX	Diode	
D301	MA736TX	Diode	
D302	MA736TX	Diode	
D303	MA736TX	Diode	
D304	MA736TX	Diode	
D630	B3AAB0000143	Diode	
D631	MA8056LMHTX	Diode	
D635	MA8056LMHTX	Diode	
D636	MA8056LMHTX	Diode	
D637	MA152WATX	Diode	
D670	MA721TX	Diode	
D671	MA3X152A0L	Diode	
D701	YEADDAM3MA47	Diode	
D702	MA736TX	Diode	
D703	YEADRD56M3T1	Diode	
D704	MA721TX	Diode	
D705	B0BC9R600001	Diode	
D706	YEADRD82M1T1	Diode	
D707	YEADRB051L40	Diode	
D708	MA3X152K0L	Diode	
D710	MA721TX	Diode	
D720	MA4091MTA	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D721	MA721TX	Diode	
D740	MA3X74000L	Diode	
D760	YEADRD51M2T1	Diode	
D761	YEADRD30M2T1	Diode	
D770	MA721TX	Diode	C
D771	MA721TX	Diode	C
D772	MA4051LMTA	Diode	
CAPACITORs			
C52	YECUS1H470JC	Ceramic, 47PF 50WV	
C53	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C54	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C55	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C56	F3F1E105A001	Tantalum, 1 μF 25WV	
C61	YECUS1E273KX	Ceramic, 0.027 μF 25WV	
C62	YECUS1E273KX	Ceramic, 0.027 μF 25WV	
C65	F1J1H1020024	Ceramic, 1000PF 50WV	
C201	F1J1H681A672	Ceramic, 680PF 50WV	
C202	F1J1H681A672	Ceramic, 680PF 50WV	
C206	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C213	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C215	F1J1A2250004	Ceramic, 2.2 μF 10WV	
C217	YECUS1C334KX	Ceramic, 0.33 μF 16WV	
C220	F2A1H2R2A154	Electrolytic, 2.2 μF 50WV	
C244	YECUV2A152KX	Ceramic, 1500PF 100WV	C
C245	F2A1C101A150	Electrolytic, 100 μF 16WV	C
C246	YECUS1C104KX	Ceramic, 0.1 μF 16WV	C
C247	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	C
C248	F2A1C470A150	Electrolytic, 47 μF 16WV	C
C249	YECUS1C104KX	Ceramic, 0.1 μF 16WV	C
C251	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	C
C254	F1J1H152A675	Ceramic, 1500PF 50WV	C
C255	F2A1C101A150	Electrolytic, 100 μF 16WV	C
C257	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	C
C259	YECUS1C104KX	Ceramic, 0.1 μF 16WV	C
C261	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C263	F2A1HR470035	Electrolytic, 0.47 μF 50WV	
C265	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C267	F2A1HR470035	Electrolytic, 0.47 μF 50WV	
C271	F1J1H472A675	Ceramic, 4700PF 50WV	
C272	F1J1H472A675	Ceramic, 4700PF 50WV	
C274	F2A1C4700073	Electrolytic, 47 μF 16WV	
C275	F1J1C1050013	Ceramic, 1 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C278	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C279	F2A1C4720027	Electrolytic, 4700 μ F 16WV	
C301	F1J1H681A672	Ceramic, 680PF 50WV	
C302	F1J1H681A672	Ceramic, 680PF 50WV	
C306	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C313	F1J1A2250004	Ceramic, 2.2 μ F 10WV	
C315	F1J1A2250004	Ceramic, 2.2 μ F 10WV	
C317	YECUS1C334KX	Ceramic, 0.33 μ F 16WV	
C320	F2A1H2R2A154	Electrolytic, 2.2 μ F 50WV	
C323	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C324	F2A1H2R2A154	Electrolytic, 2.2 μ F 50WV	
C325	F2A1H2R2A154	Electrolytic, 2.2 μ F 50WV	
C326	F1J1A2250004	Ceramic, 2.2 μ F 10WV	
C327	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C328	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C330	F1J1A2250004	Ceramic, 2.2 μ F 10WV	
C331	F1J1A2250004	Ceramic, 2.2 μ F 10WV	
C345	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C349	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	C
C351	F2A1H4R7A154	Electrolytic, 4.7 μ F 50WV	C
C354	F1J1H152A675	Ceramic, 1500PF 50WV	C
C355	F2A1C101A150	Electrolytic, 100 μ F 16WV	C
C357	F2A1H4R7A154	Electrolytic, 4.7 μ F 50WV	C
C358	F2A1C470A150	Electrolytic, 47 μ F 16WV	C
C359	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	C
C361	F2A1H4R7A154	Electrolytic, 4.7 μ F 50WV	
C363	F2A1HR470035	Electrolytic, 0.47 μ F 50WV	
C365	F2A1H4R7A154	Electrolytic, 4.7 μ F 50WV	
C367	F2A1HR470035	Electrolytic, 0.47 μ F 50WV	
C371	F1J1H472A675	Ceramic, 4700PF 50WV	
C372	F1J1H472A675	Ceramic, 4700PF 50WV	
C374	F2A1H2R20044	Electrolytic, 2.2 μ F 50WV	
C375	ECEA1CKS100I	Electrolytic, 10 μ F 16WV	
C378	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C401	F1J1H120A034	Ceramic, 12PF 50WV	
C402	F1J1H120A034	Ceramic, 12PF 50WV	
C403	F2A0J101A164	Electrolytic, 100 μ F 6.3WV	
C404	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C405	F1H1H101A231	Ceramic, 100PF 50WV	
C411	F1J1H103A513	Ceramic, 0.01 μ F 50WV	
C412	YECUS1E223KX	Ceramic, 0.022 μ F 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C413	ECQV1H224JL2	Plastic Film, 0.22 μF 50WV	
C414	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C601	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C602	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C603	F2A0J331A164	Electrolytic, 330 μF 6.3WV	
C604	EECS0HD473H	Electrolytic, 0.047 μF 5.5WV	
C605	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C606	F1J1H180A034	Ceramic, 18PF 50WV	
C607	F1J1H180A034	Ceramic, 18PF 50WV	
C608	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C609	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C610	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C631	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C632	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C633	F2A1C470A150	Electrolytic, 47 μF 16WV	
C634	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C670	ECEA1CKS100I	Electrolytic, 10 μF 16WV	
C671	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C680	F2A1H2R2A154	Electrolytic, 2.2 μF 50WV	
C701	YECUS1C154KX	Ceramic, 0.15 μF 16WV	
C702	F2A1C1020069	Electrolytic, 1000 μF 16WV	
C703	F2A1H4R7A154	Electrolytic, 4.7 μF 50WV	
C704	F2A0J470A164	Electrolytic, 47 μF 6.3WV	
C705	F1H1E103A011	Ceramic, 0.01 μF 25WV	
C706	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C707	F2A1C1020069	Electrolytic, 1000 μF 16WV	
C708	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C709	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C710	YECUS1H103ZF	Ceramic, 0.01 μF 50WV	
C711	YECUS1H103ZF	Ceramic, 0.01 μF 50WV	
C712	F2A1A101A144	Electrolytic, 100 μF 10WV	
C713	YECUS1C474KX	Ceramic, 0.47 μF 16WV	
C721	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C722	F2A1A101A144	Electrolytic, 100 μF 10WV	
C730	F1K1E334A022	Ceramic, 0.33 μF 25WV	
C731	YECUX1C334KX	Ceramic, 0.33 μF 16WV	
C732	EEAFC1C560H	Electrolytic, 56 μF 16WV	
C740	YECUS1E224ZF	Ceramic, 0.22 μF 25WV	
C741	YECUS1C224ZF	Ceramic, 0.22 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C742	F2A1C470A150	Electrolytic, 47 μF 16WV	
C743	ECEA1VKS100I	Electrolytic, 10 μF 35WV	
C744	ECEA1VKS100I	Electrolytic, 10 μF 35WV	
C750	EEAFC1C560H	Electrolytic, 56 μF 16WV	
C751	YECUS1E224ZF	Ceramic, 0.22 μF 25WV	
C752	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C753	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C754	F2A0J101A164	Electrolytic, 100 μF 6.3WV	
C755	YECUS1C334KX	Ceramic, 0.33 μF 16WV	
C756	YECUS1C334KX	Ceramic, 0.33 μF 16WV	
C757	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C758	F2A0J470A164	Electrolytic, 47 μF 6.3WV	
C760	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C761	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C762	F2A1C470A150	Electrolytic, 47 μF 16WV	
C763	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C764	YECUS1E224ZF	Ceramic, 0.22 μF 25WV	
C772	F2A0J470A164	Electrolytic, 47 μF 6.3WV	
C795	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
RESISTORs			
J401	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J402	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J403	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J404	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J411	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J412	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J413	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J414	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J501	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J503	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J504	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J506	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J507	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J508	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J509	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J510	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J511	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J512	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J513	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J514	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
J515	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J517	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J518	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J520	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J521	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J522	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J523	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J524	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J525	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J526	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J527	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J528	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J529	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J530	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J531	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J532	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J533	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J534	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J535	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J536	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J537	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J538	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J539	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J540	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J541	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J542	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J543	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J544	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J545	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J546	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J547	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J548	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J549	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J550	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J551	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J552	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J553	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J554	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J555	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J558	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J559	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
L290	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L291	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L292	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L295	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	C

Ref. No.	Part No.	Part Name & Description	Remarks
L295	ERD6GEYJ180	Chip, 18 Ω 1/10W	D
L296	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	C
L296	ERD6GEYJ180	Chip, 18 Ω 1/10W	D
L298	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L299	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L393	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L394	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L395	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	C
L395	ERD6GEYJ180	Chip, 18 Ω 1/10W	D
L396	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	C
L396	ERD6GEYJ180	Chip, 18 Ω 1/10W	D
L398	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
L399	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R50	ERJ6GEYJ5R6V	Chip, 5.6 Ω 1/10W	
R54	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R55	ERJ6GEYJ221V	Chip, 220 Ω 1/10W	
R59	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R65	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R201	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R202	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R203	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R207	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R211	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R212	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R213	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R214	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R215	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R216	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R217	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R220	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R221	ERJ6GEYJ124	Chip, 120k Ω 1/10W	C
R221	ERJ6GEYJ563	Chip, 56k Ω 1/10W	D
R244	ERJ6GEYJ393	Chip, 39k Ω 1/10W	C
R245	ERJ6GEYJ273	Chip, 27k Ω 1/10W	C
R247	ERJ8GX0R00V	Chip, 0 Ω 1/8W	D
R248	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	C
R248	ERD6GEYJ180	Chip, 18 Ω 1/10W	D
R251	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	D
R252	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	C
R253	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	C
R254	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	C
R255	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	C
R257	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	D
R261	ERJ6GEYJ560	Chip, 56 Ω 1/10W	C
R261	ERJ6GEYJ181	Chip, 180 Ω 1/10W	D

Ref. No.	Part No.	Part Name & Description	Remarks
R262	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R263	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R265	ERJ6GEYJ560	Chip, 56 Ω 1/10W	C
R265	ERJ6GEYJ181	Chip, 180 Ω 1/10W	D
R266	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R267	ERJ8GEYJ561V	Chip, 560 Ω 1/8W	
R275	ERJ8GEYJ223V	Chip, 22k Ω 1/8W	
R301	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R302	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R303	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R307	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R311	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R312	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R313	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R314	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R315	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R316	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R317	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R320	ERJ6GEYJ750V	Chip, 75 Ω 1/10W	
R321	ERJ6GEYJ124	Chip, 120k Ω 1/10W	C
R321	ERJ6GEYJ563	Chip, 56k Ω 1/10W	D
R323	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R324	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R325	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R326	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R330	ERJ6GEYJ101	Chip, 100 Ω 1/10W	
R345	ERJ6GEYJ560	Chip, 56 Ω 1/10W	C
R345	ERJ6GEYJ181	Chip, 180 Ω 1/10W	D
R346	ERJ3GEYJ223V	Chip, 22k Ω 1/16W	
R348	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	C
R348	ERD6GEYJ180	Chip, 18 Ω 1/10W	D
R351	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	D
R352	ERJ6GEYJ393	Chip, 39k Ω 1/10W	C
R353	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	C
R354	ERJ6GEYJ393	Chip, 39k Ω 1/10W	C
R355	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	C
R357	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	D
R361	ERJ6GEYJ560	Chip, 56 Ω 1/10W	C
R361	ERJ6GEYJ181	Chip, 180 Ω 1/10W	D
R362	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R363	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R365	ERJ6GEYJ560	Chip, 56 Ω 1/10W	C
R365	ERJ6GEYJ181	Chip, 180 Ω 1/10W	D
R366	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R367	ERJ6GEYJ561	Chip, 560 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R373	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R375	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R376	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R401	ERJ3GEYJ152V	Chip, 1.5k Ω 1/16W	
R402	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R403	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R404	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R405	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R406	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R407	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R408	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R409	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R410	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R411	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R413	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	
R414	ERJ8GEYJ561V	Chip, 560 Ω 1/8W	
R417	ERJ6GEYJ100	Chip, 10 Ω 1/10W	
R601	ERJ6GEYJ432V	Chip, 4.3k Ω 1/10W	
R602	ERJ3GEYJ432V	Chip, 4.3k Ω 1/16W	
R603	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R604	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R605	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R607	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R608	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R609	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	D
R610	ERJ6GEYJ473	Chip, 47k Ω 1/10W	C
R612	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R613	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R614	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R615	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R619	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R620	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R621	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R622	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R625	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R626	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R627	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R628	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R629	ERJ8GEYJ104V	Chip, 100k Ω 1/8W	
R630	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R631	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R632	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R634	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R638	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R639	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R640	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R643	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R646	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R650	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R651	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R652	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R656	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R657	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R658	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R659	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R660	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R661	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R662	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
R667	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R670	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R671	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R672	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R673	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R680	ERJ6GEYJ271	Chip, 270 Ω 1/10W	
R681	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R682	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R701	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R702	ERJ6GEYJ274	Chip, 270k Ω 1/10W	
R703	ERJ6GEYJ433V	Chip, 43k Ω 1/10W	
R704	ERJ8GEYJ4R7V	Chip, 4.7 Ω 1/8W	
R705	ERJ8GEYJ4R7V	Chip, 4.7 Ω 1/8W	
R706	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R708	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R709	ERDS1FJ821T	Carbon, 820 Ω 1/2W	
R710	ERDS1FJ821T	Carbon, 820 Ω 1/2W	
R711	ERJ8GEYJ1R0V	Chip, 1 Ω 1/8W	
R712	ERJ8GEYJ1R0V	Chip, 1 Ω 1/8W	
R713	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R714	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R715	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R716	ERJ6GEYJ224	Chip, 220k Ω 1/10W	
R717	ERJ6GEYJ433V	Chip, 43k Ω 1/10W	
R720	ERJ8GEYJ101V	Chip, 100 Ω 1/8W	
R721	ERJ8GEYJ101V	Chip, 100 Ω 1/8W	
R730	ERJ6ENF6802V	Chip, 68k Ω 1/10W	
R731	ERJ6ENF2203V	Chip, 220k Ω 1/10W	
R732	ERJ6ENF1802V	Chip, 18k Ω 1/10W	
R733	ERJ6ENF1303V	Chip, 130k Ω 1/10W	
R734	ERJ6ENF2201V	Chip, 2.2k Ω 1/10W	
R742	ERJ6GEYJ101	Chip, 100 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R750	ERJ6ENF1002	Chip, 10k Ω 1/10W	
R751	ERJ6ENF8201V	Chip, 8.2k Ω 1/10W	
R752	ERJ6ENF2201V	Chip, 2.2k Ω 1/10W	
R755	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R760	ERJ6GEYJ162V	Chip, 1.6k Ω 1/10W	
R761	ERDS1FJ3R9	Carbon, 3.9 Ω 1/2W	
R770	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	D
R772	ERJ8GEYJ221V	Chip, 220 Ω 1/8W	
R773	ERJ8GEYJ221V	Chip, 220 Ω 1/8W	
R780	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
R781	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
R782	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
R790	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R791	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R795	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
CONNECTORs			
CN1	K1NZ16H00001	Connector, 16P	
CN201	K2KF29Z00025	Plug, 4P	
CN251	YEAE012503	Plug, 4P	
CN253	YEAJ011604	Plug, 4P	
CN301	K2KF29Z00024	Plug, 4P	
CN351	K2KF29Z00013	Plug, 4P	
CN601	K1MN16B00130	Connector, 16P	
CN651	YEAETKCW22PS	Connector, 22P	
CN670	K1PQ07A00003	Connector, 7P	
CN680	YEAE012307	Connector, DIN8P	
CN701	K1FA116B0028	Connector, 16P	
CN760	YEAE5339802	Connector, 2P	
COILs			
L50	G1C150K00011	Coil	
L52	G1CR56K00009	Coil	
L401	YELT03N101JT	Coil	
L601	YELT03N330JT	Coil	
L602	YELT03N101JT	Coil	
L603	YELT03N330JT	Coil	
L630	ELEAR330KA	Choke Coil	
L701	YELTBL01R1AT	Coil	
L702	G0A161J00001	Coil	
SWITCHes			
SW601	K0L1BA000022	Switch	
SW602	K0L1BA000023	Switch	
CRYSTALs			
XL401	H0D720400006	Crystal Oscillator	

Ref. No.	Part No.	Part Name & Description	Remarks
XL601	H0J419400009	Crystal Oscillator	
LAMP			
Z50	YEAL02010T	Lamp	
NETWORK RESISTOR			
R606	EXBV8V102JV	Network Resistor	
FILTER			
CF51	YEXC07T009	Filter	
THERMISTOR			
PT701	YERT7AR4R7MT	Thermistor	
[E9413] Display Block			
IC's AND TRANSISTORs			
IC900	C2DBKJ000188	IC	
IC901	C3FBPD000099	IC	
IC902	MN1382KTX	IC	
IC903	B3MBZ0000006	LED	
Q901	B1GBCFNN0009	Transistor	
Q902	B1GDCFNN0002	Transistor	
Q903	B1GBCFNN0004	Transistor	
Q904	B1GBCFNN0004	Transistor	
Q913	YEANSSTA06T	Transistor	
Q914	YEANSSTA06T	Transistor	
DIODEs			
D901	MA8056LMHTX	Diode	
D903	MAZ80390LL	Diode	
D904	MA8056LMHTX	Diode	
D905	MA8056LMHTX	Diode	
D906	MAZ81800ML	Diode	
D907	B3AEB0000037	Diode	
D909	MA152WKTX	Diode	
D910	MAZ80390LL	Diode	
D911	MAZ80390LL	Diode	
D912	MAZ80390LL	Diode	
D913	MAZ80390LL	Diode	
D914	MAZ80390LL	Diode	
D916	MA721TX	Diode	
D917	MAZ80390LL	Diode	
D918	MAZ80390LL	Diode	
D919	MAZ80390LL	Diode	
D920	MAZ80390LL	Diode	
D921	MAZ80390LL	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
CAPACITORs			
C901	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C902	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C903	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C904	ECST1CX106R	Electrolytic, 10 μF 16WV	
C905	F1H1H100A226	Ceramic, 10PF 50WV	
C906	F1H1H100A226	Ceramic, 10PF 50WV	
C907	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C908	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C909	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C910	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C911	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C912	ECST1CX106R	Electrolytic, 10 μF 16WV	
C913	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C914	YECUS1C105ZF	Ceramic, 1 μF 16WV	
C915	YECUS1C105ZF	Ceramic, 1 μF 16WV	
C916	F1J1H102A672	Ceramic, 1000PF 50WV	
C919	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C925	F2H1C2200001	Electrolytic, 22 μF 16WV	
C926	F1J1H562A675	Ceramic, 5600PF 50WV	
C927	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C928	F0F2A2230001	Plastic Film, 0.022 μF 100WV	
C929	F1L3F1200001	Ceramic, 12PF 3160WV	
C931	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C932	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C933	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C934	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C935	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C936	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C937	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C938	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C939	YECUZ1C104KX	Ceramic, 0.1 μF 16WV	
C940	YECUV1C225KX	Ceramic, 2.2 μF 16WV	
C973	YECUZ1H103KX	Ceramic, 0.01 μF 50WV	
C974	YECUZ1H103KX	Ceramic, 0.01 μF 50WV	
RESISTORs			
FB901	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
FB902	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
FB903	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R901	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R902	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R903	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R904	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R905	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R906	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R907	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R908	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R909	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R910	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R911	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R912	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R913	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R914	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R915	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R916	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R917	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R918	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R919	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R920	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R921	ERJ3GEYJ274V	Chip, 270k Ω 1/16W	
R923	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R924	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R925	ERJ3GEYJ302V	Chip, 3k Ω 1/16W	
R926	ERJ3GEYJ302V	Chip, 3k Ω 1/16W	
R927	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R928	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R929	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R931	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R932	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R933	ERJ3GEYJ821V	Chip, 820 Ω 1/16W	
R934	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R935	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R936	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R937	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R938	ERJ3GEYJ124V	Chip, 120k Ω 1/16W	
R939	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R947	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R948	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R950	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R951	ERJ3GEYJ153V	Chip, 15k Ω 1/16W	
R953	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R954	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R961	ERJ6GEYJ681	Chip, 680 Ω 1/10W	
R962	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R963	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R969	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
CONNECTORs			
CN901	K1NZ16A00001	Connector, 16P	
CN902	K1MN40B00006	Connector, 40P	
COIL			
L907	G1C101M00014	Coil	
SWITCHes			
SW901	K9AA024A0009	Switch	
SW902	K0H1BA000445	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW906	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
CRYSTAL			
XL900	H0J125500008	Crystal Oscillator	
LCD			
LCD901	L5F000000007	LCD	
NETWORK RESISTORs			
RA901	D1H822140004	Network Resistor	
RA902	D1H822140004	Network Resistor	
RA903	D1H822140004	Network Resistor	
RA904	D1H822140004	Network Resistor	
RA905	D1H822140004	Network Resistor	
RA906	D1H822140004	Network Resistor	
RA907	D1H822140004	Network Resistor	
RA908	D1H822140004	Network Resistor	
RA909	D1H822140004	Network Resistor	
RA910	D1H822140004	Network Resistor	
RA911	D1H822140004	Network Resistor	
THERMISTOR			

Ref. No.	Part No.	Part Name & Description	Remarks
TH900	D4CC14730002	Thermistor	
TRANSFORMER			
L908	G5C1AAA00001	Transformer	
DISPLAY TUBE			
CFL901	A2CA00000044	Display Tube	
[E9414] CD Servo Block			
IC's AND TRANSISTORs			
IC1	C1BB00000665	IC	
IC4	C0GBY0000024	IC	
Q2	2SB766ATX	Transistor	
Q3	PN147	Transistor	
Q4	B1ADJC000003	Transistor	
DIODEs			
D2	YEADAN202UTX	Diode	
D3	LN57	LED	
CAPACITORs			
C3	F1H1H8R0A226	Ceramic, 8PF 50WV	
C4	YECUZ1H270JC	Ceramic, 27PF 50WV	
C5	YECUZ1H040CC	Ceramic, 4PF 50WV	
C6	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C7	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C8	YECUZ1H472KX	Ceramic, 4700PF 50WV	
C9	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C10	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C11	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C12	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C16	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C17	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C19	F1H1H104A783	Ceramic, 0.1 μF 50WV	
C20	F1H1H103A783	Ceramic, 0.01 μF 50WV	
C21	F1H1H103A783	Ceramic, 0.01 μF 50WV	
C24	ECEV1CA100SR	Electrolytic, 10 μF 16WV	
C25	YECUZ1E223KX	Ceramic, 0.022 μF 25WV	
C26	F1H1H2220004	Ceramic, 2200PF 50WV	
C27	F1H1H2220004	Ceramic, 2200PF 50WV	
C28	YECUZ1H270JC	Ceramic, 27PF 50WV	
C30	YECUZ1H560JC	Ceramic, 56PF 50WV	
C31	YECUZ1H270JC	Ceramic, 27PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C32	ECEV1CA100SR	Electrolytic, 10 μF 16WV	
C34	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C35	ECEV1CA100SR	Electrolytic, 10 μF 16WV	
C38	ECEV1AA101SP	Electrolytic, 100 μF 10WV	
C39	ECEV1CA100SR	Electrolytic, 10 μF 16WV	
C40	ECEV1AA101SP	Electrolytic, 100 μF 10WV	
C45	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C46	ECEV1AA101SP	Electrolytic, 100 μF 10WV	
C51	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C52	F1H1H103A783	Ceramic, 0.01 μF 50WV	
C53	F1J1H103A513	Ceramic, 0.01 μF 50WV	
C60	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
RESISTORs			
J101	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J102	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J103	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J104	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J105	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J106	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J107	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J108	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J109	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J110	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J111	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J112	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J113	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J114	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J115	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J116	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J117	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J118	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J119	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J120	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J121	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J122	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J123	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J124	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J125	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J126	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J127	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J128	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J129	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
J130	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J131	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J132	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J133	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J134	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J135	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J136	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J137	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J138	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J139	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J140	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J142	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J143	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J144	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J145	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J146	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J147	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J148	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J149	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J150	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J151	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J152	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J153	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J154	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J155	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J156	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J157	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J158	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J159	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J160	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J161	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J162	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J163	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J164	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J165	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J166	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J167	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J170	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J171	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J172	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J173	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J177	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J178	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J179	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J180	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	

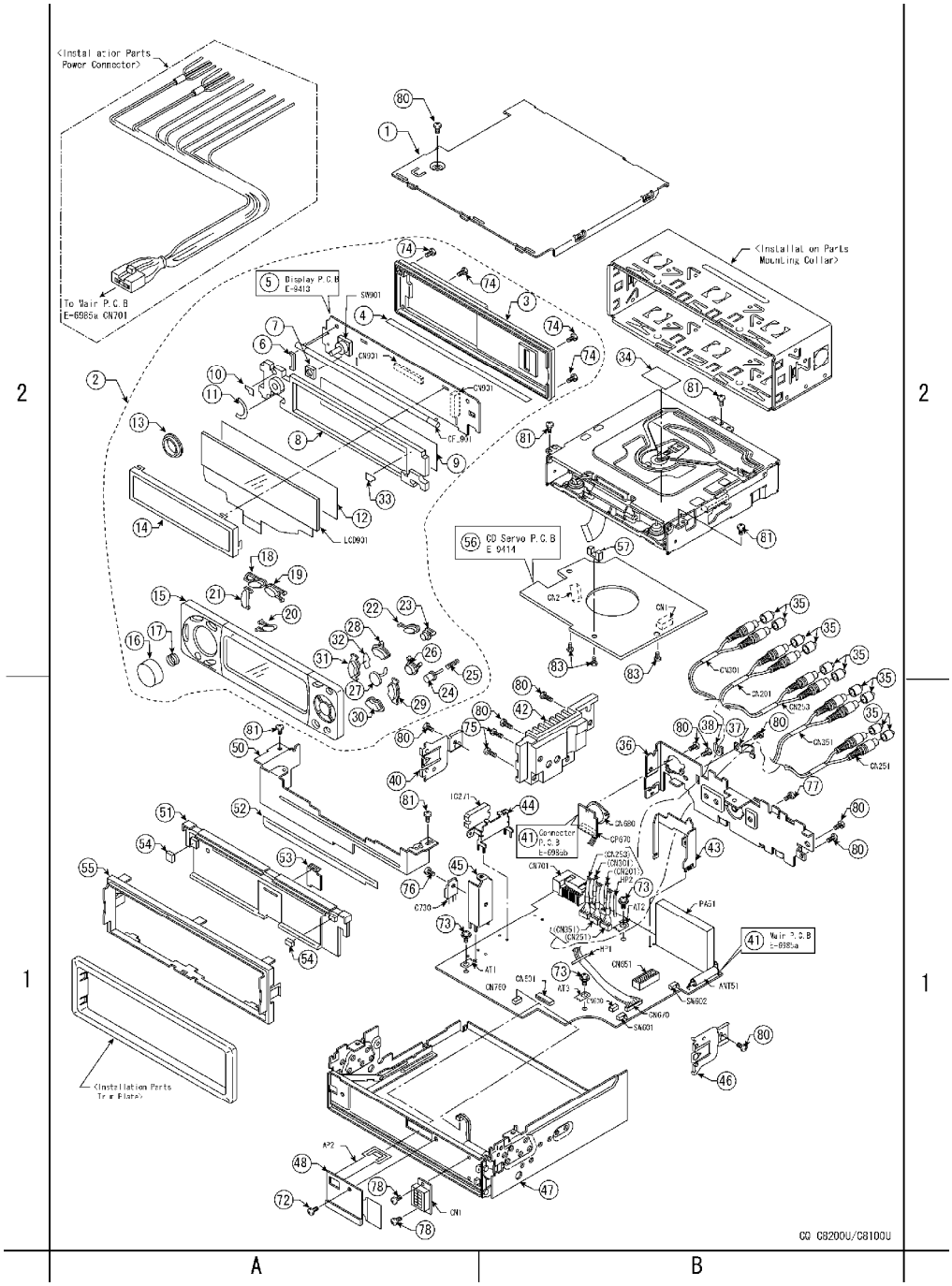
Ref. No.	Part No.	Part Name & Description	Remarks
J181	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J182	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J183	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J184	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J185	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J186	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R1	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R2	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R8	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R10	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R12	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R13	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R14	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R15	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R16	ERJ3GEYJ563V	Chip, 56k Ω 1/16W	
R17	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R18	ERJ3GEYJ332V	Chip, 3.3k Ω 1/16W	
R20	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R21	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R22	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R27	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R28	ERJ8GEYJ104V	Chip, 100k Ω 1/8W	
R30	ERJ3GEYJ220V	Chip, 22 Ω 1/16W	
R34	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R37	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R39	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R40	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R41	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R46	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R47	ERJ8GEYJ473V	Chip, 47k Ω 1/8W	
R48	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R51	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R52	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R53	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R54	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R55	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R56	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R57	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R58	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R59	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R60	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R61	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R62	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R63	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
CONNECTORs			
CN1	YEAE0122TKCR	Connector, 22P	
CN2	K1MN16B00036	Connector, 16P	
COIL			
L1	YELT03N101JT	Coil	
CRYSTAL			
X1	H2D169500017	Crystal Oscillator	
Accessories			
PRINTINGs			
	YEFM284108	Operating Instructions	
INSTALLATION PARTs			
	YEFA131646	Removable Face Plate Case	
	YEAJ02871	Power Connector	
	YEFX9992663	Remote Control Unit	
	CR2025/1F	Lithium Battery	⚠
	YEP0FZ3158	Screw Kit (Nut, Screw, Bolt, Lock Cancel Plate)	
	YEFX0215873	Mounting Collar	
	YEFG04019	Rear Support Strap	
	YEFC05605	Trim Plate	
	YEP0FZ3406	Security Screw Kit	
Mechanical Parts			
MISCELLANEOUS			
ANT51	YEAA10090	Antenna Receptacle	
AP2	YEAP2879	Flexible PCB	
AT1	K4ZZ01000048	Terminal	
AT2	K4ZZ01000048	Terminal	
AT3	K4ZZ01000048	Terminal	
HP1	YEAT03324	Terminal	
HP2	YEAT03324	Terminal	
1	YEFA031898	Upper Cover	
2	YEP0FX5336	Removable Face Plate Unit	RTL C
2	YEP0FX5337	Removable Face Plate Unit	RTL D
3	YEFA131825	Back Cover, Detachable	
4	YEFV021965	Magnetic Shield	
5	YEP0PT9413Z9	Display PCB w/Component	RTL
6	YEFK061121	Holder	
7	YEFK061115	Holder	
8	YEFX0012362	Transparent Plate	
9	YEFX9993012	Shad	
10	YEFV021963	Optical Shade	
11	YEFV022002	Color Screen	

Ref. No.	Part No.	Part Name & Description	Remarks
12	YEFV021977	Optical Shade, LCD901	
13	YEFX0012367	Transparent Plate, VOL	
14	YEFX0216286	Case, LCD901	
15	YESFC02112	Escutcheon Ass'y, Detachable	C
15	YESFC02111	Escutcheon Ass'y, Detachable	D
16	YEFE07520	Knob, VOLUME	
17	YEFX0052572	Moving Plate	
18	YEFE137877	Button, MUTE	
19	YEFE137900	Button, SQ	
20	YEFE137901	Button, D.M	
21	YEFE137899	Button, SOURCE	
22	YEFE137897	Button, MEMU	
23	YEFE137891	Button, TILT/OPEN	
24	YEFE137903	Button, Releas	
25	YEFX0052729	Spring	
26	YEFE137898	Button, DISP	
27	YEFE137887	Button, BAND/SET/APM	
28	YEFE137879	Button, P.SET UP	
29	YEFE137895	Button, TUNE/TRACK >	
30	YEFE137883	Button, P.SET DOWN	
31	YEFE137896	Button, TUNE/TRACK <	
32	YEFV021975	Optical Shade	
33	YEFV021964	Optical Shade	
34	YEFM031414	Laser Seal	
35	YEFR04187	Cap	
36	YEFA08602	Rear Plate	
37	YEFX007677	Clamper, CN251, CN351	
38	YEFX007676	Clamper, CN253, CN201, CN301	
40	YEFX0216132	Bracket (L)	
41	YEP0PT6985X9	Main PCB w/Component	RTL C
41	YEP0PT6985W9	Main PCB w/Component	RTL D
42	YEFF011144	Heat Sink	
43	YEFX0216270	Bracket, IC750	
44	YEFX0213945B	Bracket, IC271	
45	YEFX0216269	Bracket, IC730	
46	YEFX0216133	Bracket (R)	
47	YEP9FX215	Drive Mechanism Ass'y	
48	YEFA131827	Flexible PCB Case	
50	YEFA07669	Front Plate	
51	YEFC028113	Rear Cover, Escutcheon	
52	YEFS02431	Pad, Escutcheon	
53	YEFX0012368	Transparent Plate, Escutheon	
54	YEFS012112	Pad, Escutcheon	
55	YEFC028112	Front Cover, Escutcheon	
56	YEP0PT9414Z9	CD Servo PCB w/Component	RTL
57	YEFK061134	Sensor Holder	
72	YEJS06404	Binding Screw	
73	YEJT03333	Tapping Screw	
74	XQN2+BG8FZ	Tapping Screw, 2*8	
75	XSB3+14FX	Binding Screw, 3*14	
76	XSB3+6FX	Binding Screw, 3*6	
77	XSB26+8FX	Binding Screw, 2.6*8	
78	XQN2+C4FZ	Binding Screw, 2*4	

Ref. No.	Part No.	Part Name & Description	Remarks
80	XTB3+6FFX	Screw, 3x6	
81	XTB26+6FFX	Tapping Screw, 2.6*6	
83	YEJT03345	Tapping Screw	

17. EXPLODED VIEW [CQ-C8200/C8100U]



18. CD PLAYER PARTS LIST[CQ-C8400U/C8300U]

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

    - Order intake period is basically six months after the first shipment.

Ref. No.	Part No.	Part Name & Description	Remarks
[3032-14-05] CD Servo Block			
IC's and Transistors			
IC201	MN6627482WB	IC	
IC202	YESAM163	IC	
IC203	YESAM166	IC	
IC204	M5218AFP	IC	
IC401	YESAM176	IC	
IC402	YESAM225	IC	
IC406	YESAM171	IC	
IC409	YESAM167	IC	
IC411	YESAM178	IC	
Q101	B1BDBC000001	Transistor	
Q201	B1BDBC000001	Transistor	
Q203	YESAN060	Transistor	
Q501	YESAN072	Photo Transistor	
Q502	YESAN071	Transistor	
Q503	YESAN071	Transistor	
DIODEs			
PH501	LN57	LED	
CAPACITORs			
C101	YESCC203	Ceramic, 220pF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C102	YESCC187	Ceramic, 0.1 μF 25WV	
C103	YESCC187	Ceramic, 0.1 μF 25WV	
C104	YESCC206	Ceramic, 0.047 μF 25WV	
C105	F1H1H2220004	Ceramic, 0.0022 μF 50WV	
C106	YESCC207	Ceramic, 0.001 μF 50WV	
C107	YESCC206	Ceramic, 0.047 μF 25WV	
C108	YESCC204	Ceramic, 330pF 50WV	
C109	YESCC187	Ceramic, 0.1 μF 25WV	
C110	YESCC187	Ceramic, 0.1 μF 25WV	
C111	YESCC299	Ceramic, 0.022 μF 50WV	
C112	YESCC183	Ceramic, 0.0022 μF 50WV	
C113	YESCC208	Ceramic, 0.0015 μF 50WV	
C114	YESCC207	Ceramic, 0.001 μF 50WV	
C115	YESCC187	Ceramic, 0.1 μF 25WV	
C116	YESCC187	Ceramic, 0.1 μF 25WV	
C121	YESCC187	Ceramic, 0.1 μF 25WV	
C122	YESCC207	Ceramic, 0.001 μF 50WV	
C123	YESCC299	Ceramic, 0.022 μF 50WV	
C124	YESCC187	Ceramic, 0.1 μF 25WV	
C125	YESCC207	Ceramic, 0.001 μF 50WV	
C126	YESCC210	Ceramic, 0.1 μF 16WV	
C127	YESCC207	Ceramic, 0.001 μF 50WV	
C128	YESCC205	Ceramic, 0.22 μF 10WV	
C129	YESCC187	Ceramic, 0.1 μF 25WV	
C130	YESCC207	Ceramic, 0.001 μF 50WV	
C131	YESCC187	Ceramic, 0.1 μF 25WV	
C132	YESCC187	Ceramic, 0.1 μF 25WV	
C135	YESCC187	Ceramic, 0.1 μF 25WV	
C136	YESCC187	Ceramic, 0.1 μF 25WV	
C137	YESCC210	Ceramic, 0.1 μF 16WV	
C138	YESCC210	Ceramic, 0.1 μF 16WV	
C139	YESCC187	Ceramic, 0.1 μF 25WV	
C140	YESCC187	Ceramic, 0.1 μF 25WV	
C141	YESCC187	Ceramic, 0.1 μF 25WV	
C151	YESCC188	Electrolytic, 10 μF 16WV	
C152	YESCC213	Electrolytic, 22 μF 6.3WV	
C153	YESCC213	Electrolytic, 22 μF 6.3WV	
C154	YESCC215	Electrolytic, 220 μF 10WV	
C203	YESCC209	Ceramic, 0.0033 μF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C204	YESCC209	Ceramic, 0.0033 μF 50WV	
C205	YESCC187	Ceramic, 0.1 μF 25WV	
C207	YESCC187	Ceramic, 0.1 μF 25WV	
C208	YESCC202	Ceramic, 22pF 50WV	
C251	YESCC215	Electrolytic, 220 μF 10WV	
C252	YESCC214	Electrolytic, 47 μF 6.3WV	
C253	YESCC215	Electrolytic, 220 μF 10WV	
C301	YESCC207	Ceramic, 0.001 μF 50WV	
C302	YESCC207	Ceramic, 0.001 μF 50WV	
C311	YESCC207	Ceramic, 0.001 μF 50WV	
C312	YESCC207	Ceramic, 0.001 μF 50WV	
C321	YESCC187	Ceramic, 0.1 μF 25WV	
C356	YESCC213	Electrolytic, 22 μF 6.3WV	
C357	YESCC214	Electrolytic, 47 μF 6.3WV	
C358	YESCC213	Electrolytic, 22 μF 6.3WV	
C359	YESCC216	Electrolytic, 100 μF 16WV	
C360	YESCC188	Electrolytic, 10 μF 16WV	
C401	YESCC187	Ceramic, 0.1 μF 25WV	
C402	YESCC187	Ceramic, 0.1 μF 25WV	
C403	YESCC187	Ceramic, 0.1 μF 25WV	
C404	YESCC187	Ceramic, 0.1 μF 25WV	
C405	YESCC187	Ceramic, 0.1 μF 25WV	
C406	YESCC187	Ceramic, 0.1 μF 25WV	
C407	YESCC187	Ceramic, 0.1 μF 25WV	
C408	YESCC187	Ceramic, 0.1 μF 25WV	
C409	YESCC187	Ceramic, 0.1 μF 25WV	
C410	YESCC187	Ceramic, 0.1 μF 25WV	
C411	YESCC187	Ceramic, 0.1 μF 25WV	
C412	YESCC187	Ceramic, 0.1 μF 25WV	
C413	YESCC187	Ceramic, 0.1 μF 25WV	
C414	YESCC187	Ceramic, 0.1 μF 25WV	
C418	YESCC187	Ceramic, 0.1 μF 25WV	
C426	YESCC187	Ceramic, 0.1 μF 25WV	
C433	YESCC210	Ceramic, 0.1 μF 16WV	
C434	YESCC210	Ceramic, 0.1 μF 16WV	
C435	YESCC187	Ceramic, 0.1 μF 25WV	
C436	YESCC187	Ceramic, 0.1 μF 25WV	
C437	YESCC210	Ceramic, 0.1 μF 16WV	
C452	YESCC188	Electrolytic, 10 μF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C463	YESCC214	Electrolytic, 47 μ F 6.3WV	
C464	YESCC214	Electrolytic, 47 μ F 6.3WV	
C501	YESCC202	Ceramic, 22pF 50WV	
C551	YESCC214	Electrolytic, 47 μ F 6.3WV	
RESISTORs			
L302	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L303	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L304	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
L305	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
J501	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
J502	ERJ6GEY0R00V	Chip, 0 Ω 1/8W	
JP101	ERJ8GEY0R00V	Chip, 0 Ω 1/4W	
R101	ERJ3GEYJ4R7V	Chip, 4.7 Ω 1/10W	
R103	YESRG067	Chip, 1.5k Ω 1/10W	
R104	YESRG077	Chip, 470 Ω 1/10W	
R105	YESRG074	Chip, 2.7k Ω 1/10W	
R106	YESRG025	Chip, 10k Ω 1/10W	
R107	YESRG074	Chip, 2.7k Ω 1/10W	
R108	YESRG076	Chip, 390k Ω 1/10W	
R109	YESRG069	Chip, 150k Ω 1/10W	
R110	YESRG025	Chip, 10k Ω 1/10W	
R111	YESRG070	Chip, 18k Ω 1/10W	
R113	YESRG066	Chip, 120k Ω 1/10W	
R114	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R115	YESRG022	Chip, 2.2k Ω 1/10W	
R116	YESRG022	Chip, 2.2k Ω 1/10W	
R117	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R118	YESRG068	Chip, 15k Ω 1/10W	
R119	YESRG021	Chip, 1k Ω 1/10W	
R120	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R121	YESRG072	Chip, 220k Ω 1/10W	
R122	YESRG081	Chip, 56k Ω 1/10W	
R123	YESRG066	Chip, 120k Ω 1/10W	
R125	YESRG077	Chip, 470 Ω 1/10W	
R126	YESRG074	Chip, 2.7k Ω 1/10W	
R127	YESRG072	Chip, 220k Ω 1/10W	
R128	YESRG020	Chip, 220 Ω 1/10W	
R129	YESRG082	Chip, 6.8k Ω 1/10W	
R130	YESRG065	Chip, 1M Ω 1/10W	
R131	YESRG022	Chip, 2.2k Ω 1/10W	
R133	YESRG022	Chip, 2.2k Ω 1/10W	
R136	YESRG022	Chip, 2.2k Ω 1/10W	
R137	YESRG021	Chip, 1k Ω 1/10W	

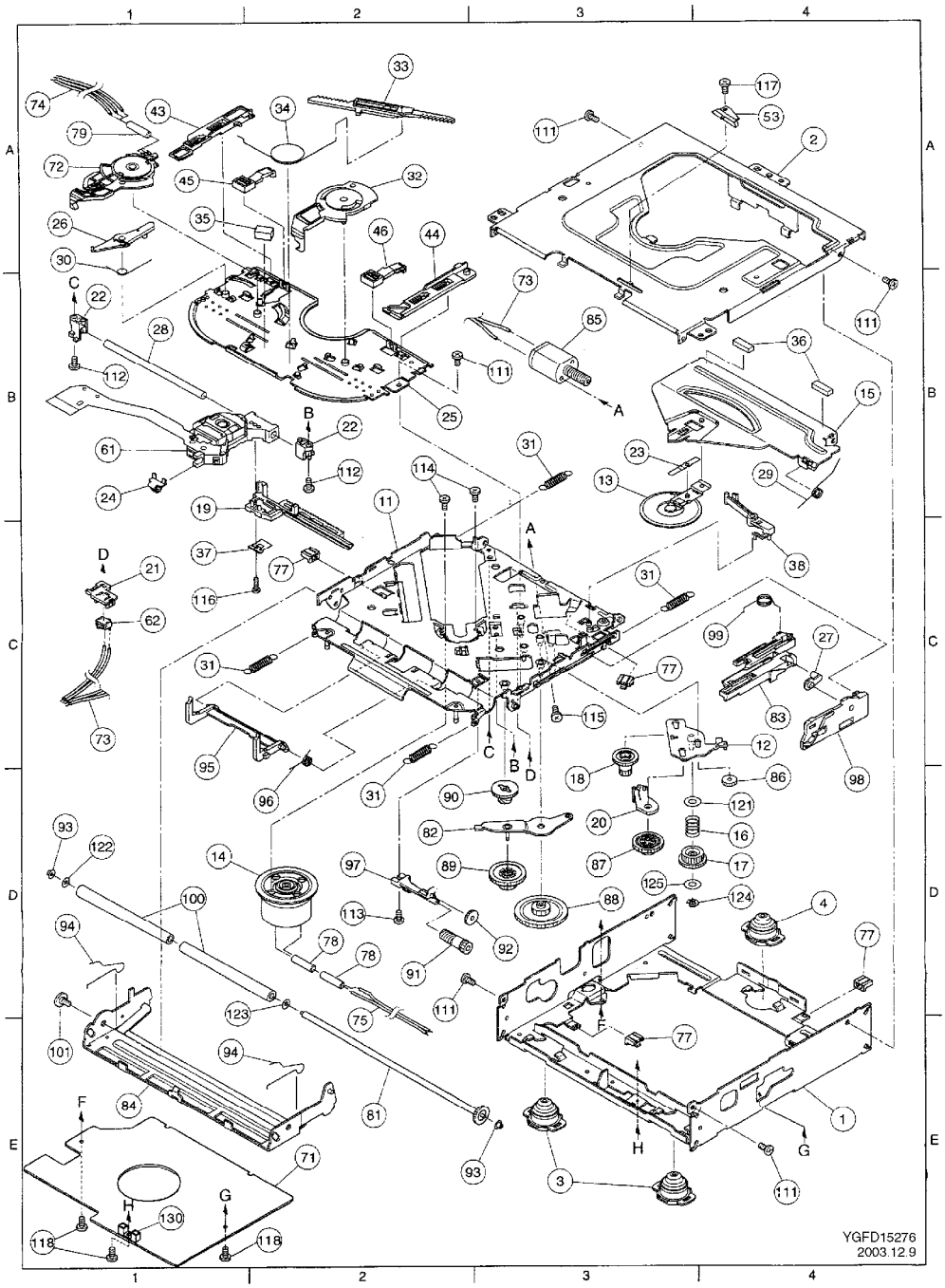
Ref. No.	Part No.	Part Name & Description	Remarks
R138	YESRG021	Chip, 1k Ω 1/10W	
R139	YESRG021	Chip, 1k Ω 1/10W	
R140	YESRG021	Chip, 1k Ω 1/10W	
R141	YESRG021	Chip, 1k Ω 1/10W	
R142	YESRG021	Chip, 1k Ω 1/10W	
R143	YESRG071	Chip, 2M Ω 1/10W	
R201	YESRG082	Chip, 6.8k Ω 1/10W	
R202	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R204	YESRG021	Chip, 1k Ω 1/10W	
R205	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R206	YESRG070	Chip, 18k Ω 1/10W	
R207	YESRG078	Chip, 5.1k Ω 1/10W	
R208	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R209	YESRG078	Chip, 5.1k Ω 1/10W	
R210	ERJ3GEY0R00V	Chip, 0 Ω 1/10W	
R211	YESRG026	Chip, 27k Ω 1/10W	
R212	YESRG028	Chip, 47k Ω 1/10W	
R301	YESRG023	Chip, 3.9k Ω 1/10W	
R302	YESRG023	Chip, 3.9k Ω 1/10W	
R303	YESRG068	Chip, 15k Ω 1/10W	
R304	YESRG025	Chip, 10k Ω 1/10W	
R305	YESRG020	Chip, 220 Ω 1/10W	
R311	YESRG023	Chip, 3.9k Ω 1/10W	
R312	YESRG023	Chip, 3.9k Ω 1/10W	
R313	YESRG068	Chip, 15k Ω 1/10W	
R314	YESRG025	Chip, 10k Ω 1/10W	
R315	YESRG020	Chip, 220 Ω 1/10W	
R322	YESRG025	Chip, 10k Ω 1/10W	
R323	YESRG025	Chip, 10k Ω 1/10W	
R324	YESRG029	Chip, 100k Ω 1/10W	
R325	YESRG029	Chip, 100k Ω 1/10W	
R326	YESRG064	Chip, 100 Ω 1/10W	
R327	YESRG025	Chip, 10k Ω 1/10W	
R328	YESRG025	Chip, 10k Ω 1/10W	
R329	YESRG021	Chip, 1k Ω 1/10W	
R401	YESRG025	Chip, 10k Ω 1/10W	
R402	YESRG025	Chip, 10k Ω 1/10W	
R403	YESRG025	Chip, 10k Ω 1/10W	
R404	YESRG025	Chip, 10k Ω 1/10W	
R408	YESRG024	Chip, 4.7k Ω 1/10W	
R409	YESRG024	Chip, 4.7k Ω 1/10W	
R414	YESRG028	Chip, 47k Ω 1/10W	
R415	YESRG028	Chip, 47k Ω 1/10W	
R416	YESRG028	Chip, 47k Ω 1/10W	
R425	YESRG064	Chip, 100 Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R429	YESRG020	Chip, 220 Ω 1/10W	
R430	YESRG080	Chip, 560 Ω 1/10W	
R431	YESRG024	Chip, 4.7k Ω 1/10W	
R432	YESRG025	Chip, 10k Ω 1/10W	
R434	YESRG029	Chip, 100k Ω 1/10W	
R435	YESRG024	Chip, 4.7k Ω 1/10W	
R478	YESRG079	Chip, 56 Ω 1/10W	
R480	YESRG079	Chip, 56 Ω 1/10W	
R481	YESRG024	Chip, 4.7k Ω 1/10W	
R482	YESRG022	Chip, 2.2k Ω 1/10W	
R483	YESRG022	Chip, 2.2k Ω 1/10W	
R501	YESRG020	Chip, 220 Ω 1/10W	
R502	YESRG081	Chip, 56k Ω 1/10W	
R503	YESRG025	Chip, 10k Ω 1/10W	
R504	YESRG075	Chip, 3.3k Ω 1/10W	
R505	YESRG068	Chip, 15k Ω 1/10W	
R506	YESRG028	Chip, 47k Ω 1/10W	
CONNECTORs			
CN101	YESAE345	Connector, 18P	
CN102	YESAE350	Connector, 16P	
COILs			
L401	YESLQ014	Coil	
L402	YESLQ014	Coil	
L403	YESLQ014	Coil	
L301	YESLQ011	Coil	
R428	YESLQ025	Inductor	
CRYSTAL			
X401	YESXL018	Crystal	
RESITOR NETWORKs			
RA401	YESXA003	Resistor Network, 56 ohms * 4	
RA402	YESXA003	Resistor Network, 56 ohms * 4	
RA403	YESXA003	Resistor Network, 56 ohms * 4	
RA405	YESXA003	Resistor Network, 56 ohms * 4	
RA406	YESXA003	Resistor Network, 56 ohms * 4	
RA407	YESXA003	Resistor Network, 56 ohms * 4	
RA408	YESXA003	Resistor Network, 56 ohms * 4	
RA409	YESXA003	Resistor Network, 56 ohms * 4	
RA410	YESXA003	Resistor Network, 56 ohms * 4	
RA413	YESXA003	Resistor Network, 56 ohms * 4	
RA412	YESXA002	Resistor Network, 100 ohms * 4	
RA414	YESXA002	Resistor Network, 100 ohms * 4	

Ref. No.	Part No.	Part Name & Description	Remarks
Mechanical Parts			
1	YESFX046136	Frame	
2	YESFX046137	Top Cover	
3	YERFS04003	Damper F	
4	YERFS04004	Damper R	
11	YESFX046138	Chassis Rivet Ass'y	
12	YERFX046001	Change Plate Rivet Ass'y	
13	YERFX007001	Clamper Ass'y	
14	YESAK01041	Spindle Motor Ass'y	
15	YERFX046002	Clamper Arm	
16	YERFX005001	Change Gear Spring	
17	YERFX03001	Change Gear 2	
18	YERFX03002	Feed Gear	
19	YERFX03003	Feed Rack	
20	YERFX046003	Changer Lock Lever	
21	YERFW04001	Feed Switch Holder	
22	YERFW04002	Pick-up Shaft Holder	
23	YERFX005002	Clamper Sub Spring	
24	YERFW04003	FD Sub Holder	
25	YESFX046139	Top Plate	
26	YERFX046004	Select Lock Arm	
27	YERFX046006	Slide Hook	
28	YERFW01001	Pick-up Shaft	
29	YERFX005003	Clamper Arm Spring	
30	YERFX005004	Select Lock Arm Spring	
31	YERFX005013	Suspension Spring	
32	YESFX046140	Select Arm R	
33	YERFX003004	Link Plate	
34	YESFX005137	Link Plate Spring	
35	YERFS01001	Cushion F	
36	YERFS01002	Cushion R	
37	YERFX005014	Feed Spring Plate	
38	YERFX046005	Trigger Arm	
43	YERFX046008	Select Plate L	
44	YERFX046009	Select Plate R	
45	YERFX046010	Select Piece R	
46	YERFX046011	Select Piece L	
53	YESFX046145	Optical Leader	
61	YESSZCDM002	Optical Pick-up Ass'y	
62	YERAS0001	Detection Switch	
71	YESAP306	Servo PCB Ass'y	RTL
72	YERAS0002	Mode Switch	
73	YESAJ07014	Loding Motor Wire	
74	YESAJ07015	Mode Switch Wire	
75	YESAJ07016	Spindle Motor Wire	
77	YERFX999001	Wire Clamper M	
78	YESFX024021	Wire Tube Spindle Motor	
79	YESFX024022	Wire Tube Mode Switch	
81	YERFX03005	Roller Shaft Ass'y	
82	YERFX046012	Loading Gear Plate Rivet Ass'y	
83	YERFX046013	Loading Plate Ass'y	
84	YESFX046173	Lock Arm Rivet Ass'y	
85	YESAK01040	Loading/Feed Motor Ass'y	

Ref. No.	Part No.	Part Name & Description	Remarks
86	YERFX03006	Loading Gear 1	
87	YERFX03007	Loading Gear 2	
88	YERFX03008	Loading Gear 3	
89	YERFX03009	Loading Gear 4	
90	YERFX03010	Loading Gear 5	
91	YERFX03011	Loading Gear 6	
92	YERFX03012	Loading Gear 7	
93	YERFW04004	Roller Guide	
94	YERFX005007	Roller Guide Spring	
95	YERFX046015	Disc Stopper Arm	
96	YERFX005008	Disc Stop Arm Spring	
97	YERFX046016	LD Gear Bracket	
98	YESFX046174	L Slide Plate	
99	YERFX005009	Loading Plate Spring	
100	YESFX046150	Loading Roller	
101	YESJS01175	Collar Screw	
111	YERJT01001	Tapping Screw 2*3	
112	YERJT01002	Tapping Screw 2*4	
113	YEJT03117	Tapping Bind Screw 2*4	
114	YERJS01002	Camera Screw 1.7*1.8	
115	YERJS01003	Camera Screw 2*2	
116	YERJS01004	Camera Tapping Screw 1.7*5	
117	YESJS01170	Screw 1.7*2.5	
118	YESJS01148	Screw 2*4	
121	YERJW01001	P Washer 3.5*8*0.3	
122	YERJW01002	HL Washer 1.85*5*0.13	
123	YERJW01003	Lumilar Washer 3.1*6*0.1	
124	YEJE01028	E Ring S 1.5	
125	YERJW01005	P Washer 2.1*4*0.13	
130	YESFX014009	Sensor Holder	

19. EXPLODED VIEW (CD PLAYER) [CQ-C8400U/ C8300U]

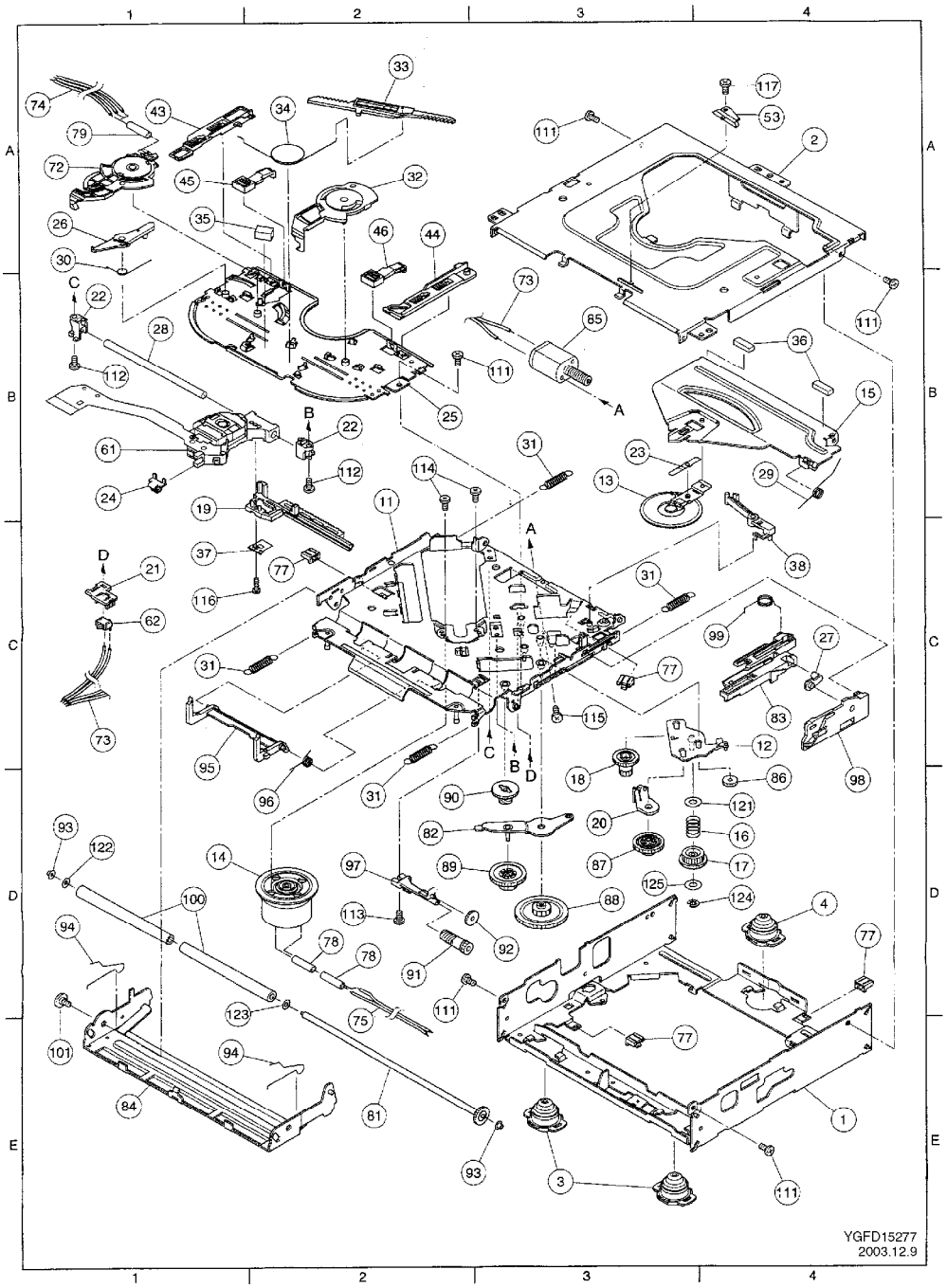


20. CD PLAYER MECHANISM PART[CQ-C8200U/ C8100U]

Ref. No.	Part No.	Part Name & Description	Remarks
MISELLANEOUS			
1	YESFX046136	Frame	
2	YESFX046137	Top Cover	
3	YERFS04003	Damper F	
4	YERFS04004	Damper R	
11	YESFX046138	Chassis Rivet Ass'y	
12	YERFX046001	Change Plate Rivet Ass'y	
13	YERFX007001	Clamper Ass'y	
14	YESAK01041	Spindle Motor Ass'y	
15	YERFX046002	Clamper Arm	
16	YERFX005001	Change Gear Spring	
17	YERFX03001	Change Gear 2	
18	YERFX03002	Feed Gear	
19	YERFX03003	Feed Rack	
20	YERFX046003	Changer Lock Lever	
21	YERFW04001	Feed Switch Holder	
22	YERFW04002	Pick-up Shaft Holder	
23	YERFX005002	Clamper Sub Spring	
24	YERFW04003	FD Sub Holder	
25	YESFX046139	Top Plate	
26	YERFX046004	Select Lock Arm	
27	YERFX046006	Slide Hook	
28	YERFW01001	Pick-up Shaft	
29	YERFX005003	Clamper Arm Spring	
30	YERFX005004	Select Lock Arm Spring	
31	YERFX005013	Suspension Spring	
32	YESFX046140	Select Arm R	
33	YERFX003004	Link Plate	
34	YESFX005137	Link Plate Spring	
35	YERFS01001	Cushion F	
36	YERFS01002	Cushion R	
37	YERFX005014	Feed Spring Plate	
38	YERFX046005	Trigger Arm	
43	YERFX046008	Select Plate L	
44	YERFX046009	Select Plate R	
45	YERFX046010	Select Piece R	
46	YERFX046011	Select Piece L	
53	YESFX046145	Optical Leader	
61	YESSZCDM002	Optical Pick-up Ass'y	
62	YERAS0001	Detection Switch	
72	YERAS0002	Mode Switch	
73	YESAJ07014	Loding Motor Wire	
74	YESAJ07015	Mode Switch Wire	
75	YESAJ07016	Spindle Motor Wire	
77	YERFX999001	Wire Clamper M	
78	YESFX024021	Wire Tube Spindle Motor	
79	YESFX024022	Wire Tube Mode Switch	
81	YERFX03005	Roller Shaft Ass'y	
82	YERFX046012	Loading Gear Plate Rivet Ass'y	
83	YERFX046013	Loading Plate Ass'y	
84	YESFX046173	Lock Arm Rivet Ass'y	
85	YESAK01040	Loading/Feed Motor Ass'y	
86	YERFX03006	Loading Gear 1	
87	YERFX03007	Loading Gear 2	

Ref. No.	Part No.	Part Name & Description	Remarks
88	YERFX03008	Loading Gear 3	
89	YERFX03009	Loading Gear 4	
90	YERFX03010	Loading Gear 5	
91	YERFX03011	Loading Gear 6	
92	YERFX03012	Loading Gear 7	
93	YERFW04004	Roller Guide	
94	YERFX005007	Roller Guide Spring	
95	YERFX046015	Disc Stopper Arm	
96	YERFX005008	Disc Stop Arm Spring	
97	YERFX046016	LD Gear Bracket	
98	YESFX046174	L Slide Plate	
99	YERFX005009	Loading Plate Spring	
100	YESFX046150	Loading Roller	
101	YESJS01175	Collar Screw	
111	YERJT01001	Tapping Screw 2*3	
112	YERJT01002	Tapping Screw 2*4	
113	YEJT03117	Tapping Bind Screw 2*4	
114	YERJS01002	Camera Screw 1.7*1.8	
115	YERJS01003	Camera Screw 2*2	
116	YERJS01004	Camera Tapping Screw 1.7*5	
117	YESJS01170	Screw 1.7*2.5	
121	YERJW01001	P Washer 3.5*8*0.3	
122	YERJW01002	HL Washer 1.85*5*0.13	
123	YERJW01003	Lumilar Washer 3.1*6*0.1	
124	YEJE01028	E Ring S 1.5	
125	YERJW01005	P Washer 2.1*4*0.13	

21. EXPLODED VIEW (CD PLAYER) [CQ-C8200U/ C8100U]



22. WIRING DIAGRAM

22.1. Display Block

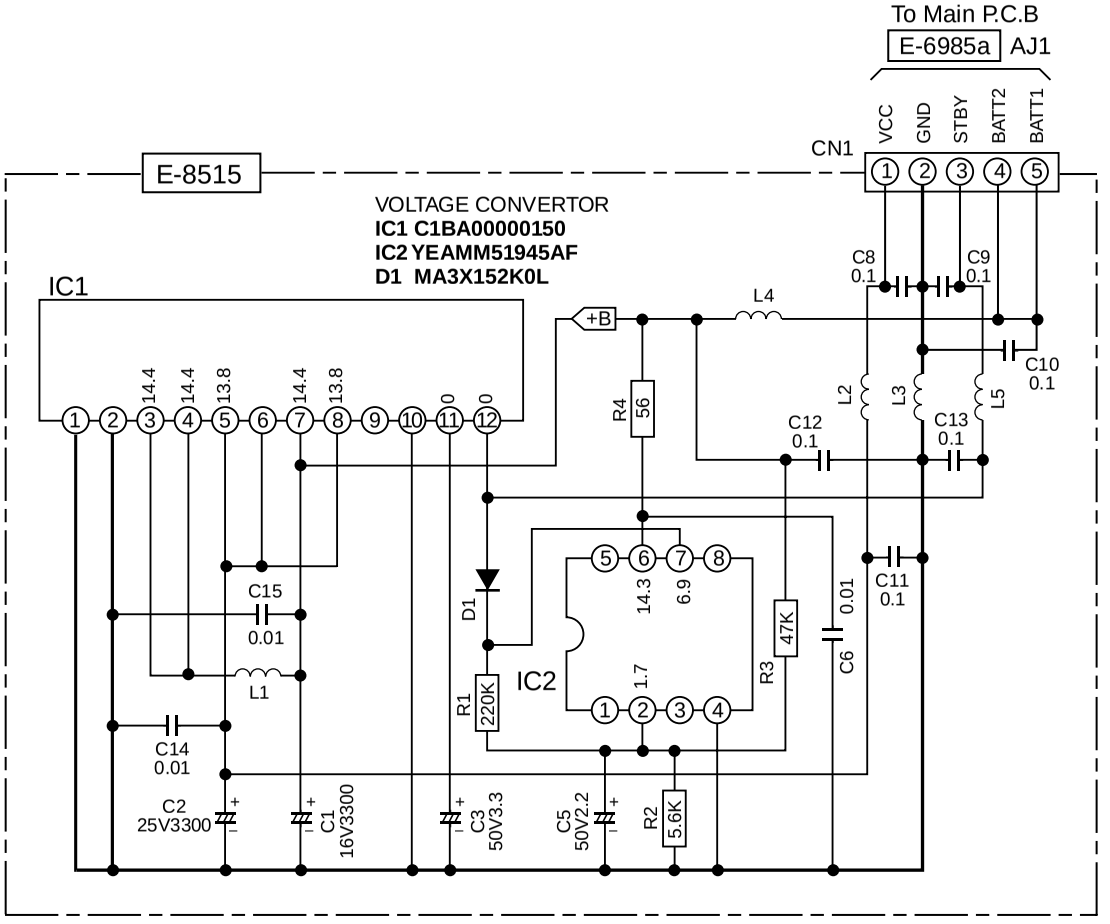
22.2. Main/Connector Block (Top View)

22.3. Main/Connector Block (Bottom View)

22.4. DC-DC Block [CQ-C8400U]

22.5. CD Servo Block (Top View) [CQ-C8400U/C8300U]
22.6. CD Servo Block (Bottom View) [CQ-C8400U/C8300U]
22.7. CD Servo Block [CQ-C8200U/C8100U]
23. SCHEMATIC DIAGRAM-1
23.1. DC-DC Block [CQ-C8400U]
24. SCHEMATIC DIAGRAM-2
24.1. Main Block [CQ-C8400U/C8300U]
24.2. Main Block [CQ-C8200U/C8100U]
24.3. Display Block
24.4. CD Servo Block-1 [CQ-C8400U/C8300U]
24.5. CD Servo Block-2 [CQ-C8400U/C8300U]
24.6. CD Servo Block [CQ-C8200U/C8100U]
25. SCHEMATIC DIAGRAM for Printing with Letter Size
25.1. Main Block [CQ-C8400U/C8300U] (Left Side)
25.2. Main Block [CQ-C8400U/C8300U] (Right Side)
25.3. Main Block [CQ-C8200U/C8100U] (Left Side)
25.4. Main Block [CQ-C8200U/C8100U] (Right Side)
25.5. Display Block (Left Side)
25.6. Display Block (Right Side)
25.7. CD Servo Block-1 [CQ-C8400U/C8300U] (Left Side)
25.8. CD Servo Block-1 [CQ-C8400U/C8300U] (Right Side)
25.9. CD Servo Block-2 [CQ-C8400U/C8300U] (Left Side)
25.10. CD Servo Block-2 [CQ-C8400U/C8300U] (Right Side)
25.11. CD Servo Block [CQ-C8200U/C8100U] (Left Side)

25.12. CD Servo Block [CQ-C8200U/C8100U] (Right Side)


To Main P.C.B
E-6985a
AJ1
CN1
VCC
GND
STBY
BATT2
BATT1
E-8515
VOLTAGE CONVERTOR
IC1 C1BA00000150
IC2 YEAMM51945AF
D1 MA3X152K0L
IC1
14.4
14.4
13.8
14.4
13.8
10
10
+B
L4
C8
0.1
C9
0.1
C10
0.1
L2
L3
L5
R4
56
C12
0.1
C13
0.1
C11
0.1
C15
0.01
L1
C14
0.01
D1
IC2
14.3
6.9
1.7
R1
220K
R3
47K
C6
0.01
C2
25V3300
C1
16V3300
C3
50V3.3
C5
50V2.2
R2
5.6K
CQ-C8400U DC-DC Block

The following symbols are shown on the schematic diagram.

16V	16V
10V	10V
5V	5V
3.3V	3.3V

E-6985a

E-6985b

*	L295	L296	L395
CQ-C8100UL	18	18	18
CQ-C8200UL	4.7	4.7	4.7

*	L395	R248	R348
CQ-C8100UL	18	18	18
CQ-C8200UL	4.7	4.7	4.7

*	R261	R265	R345	R361	R365
CQ-C8100UL	180	180	180	180	180
CQ-C8200UL	56	56	56	56	56

*	CQ-C8100UL	CQ-C8200UL
R221	56K	120K
R247	0Ω	OPEN
R251	0Ω	OPEN
R257	0Ω	OPEN
R321	56K	120K
R351	0Ω	OPEN
R357	0Ω	OPEN
R770	0Ω	OPEN
D770	OPEN	MA721TX

*	CQ-C8100UL	CQ-C8200UL
R609	47K	OPEN
R610	OPEN	47K

FM	AM
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21

FM	AM
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21

The following symbols are shown on the schematic diagram.

◁	+B	9V	9V	◀	RADIO (L,R)
◁	ACC	8V	8V	◀	CD (L,R)
16V	16V	5V	5V	▷	AUDIO (L,R)
10V	10V	3.3V	3.3V		

Inside of frames (L,R) are only for CQ-C8200UL

CQ-C8100UL/CQ-C8200UL MAIN

E-6985a

E-6985b

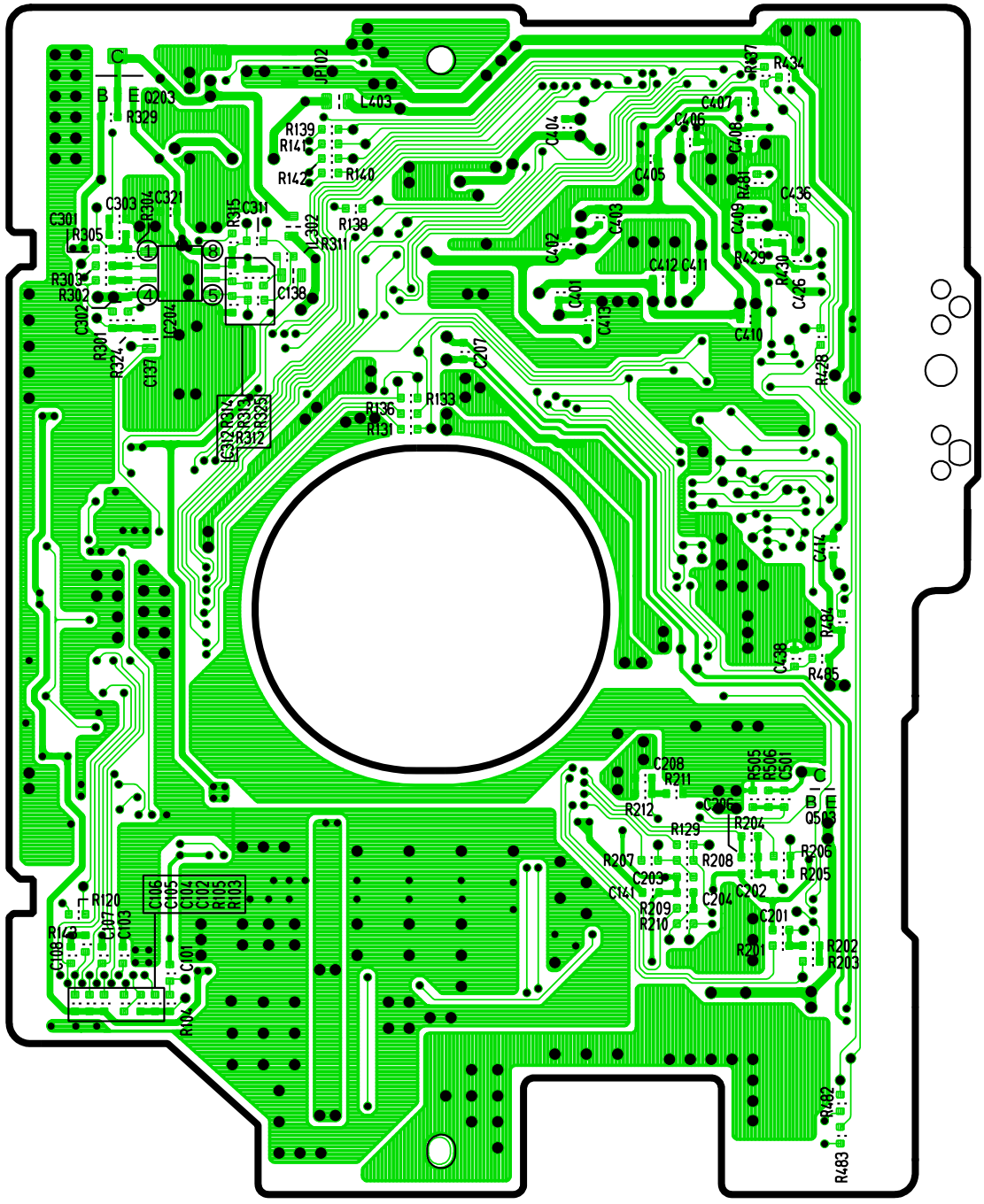
	R609	R610	R616
CQ-C8300UL	47K	OPEN	OPEN
CQ-C8400UL	OPEN	47K	4.7K

	R264	R263	CP79	R780~R785	CQ-C8300UL
	OPEN	OPEN	8P4700	0Ω	47K
*	47K	0Ω	2P47000	OPEN	0Ω
CQ-C8400UL					OPEN

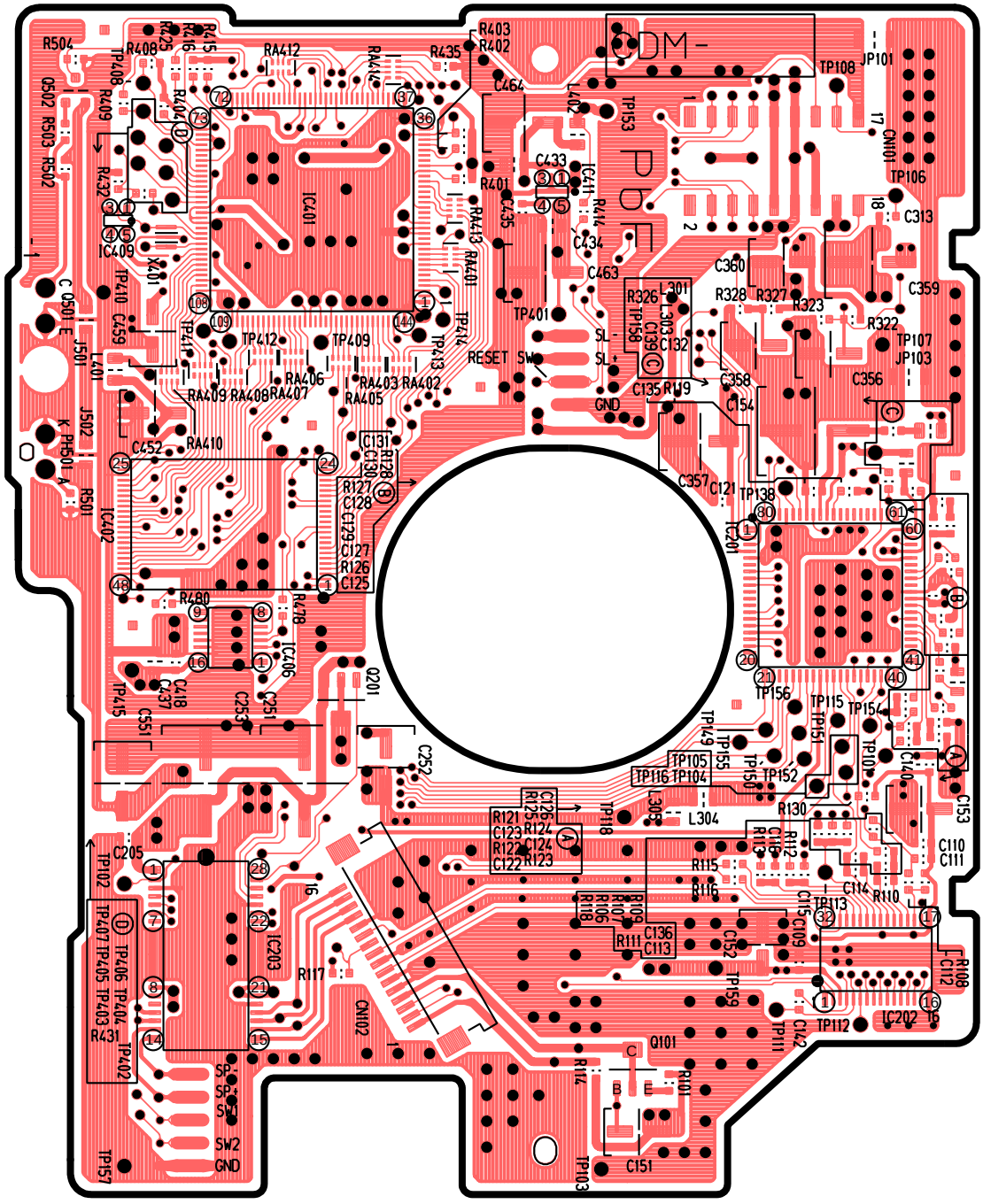
The following symbols are shown on the schematic diagram.

+B	9V	RADIO	(L,R)
ACC	8V	CD	(L,R)
16V	5V	AUDIO	(L,R)
10V	3.3V		

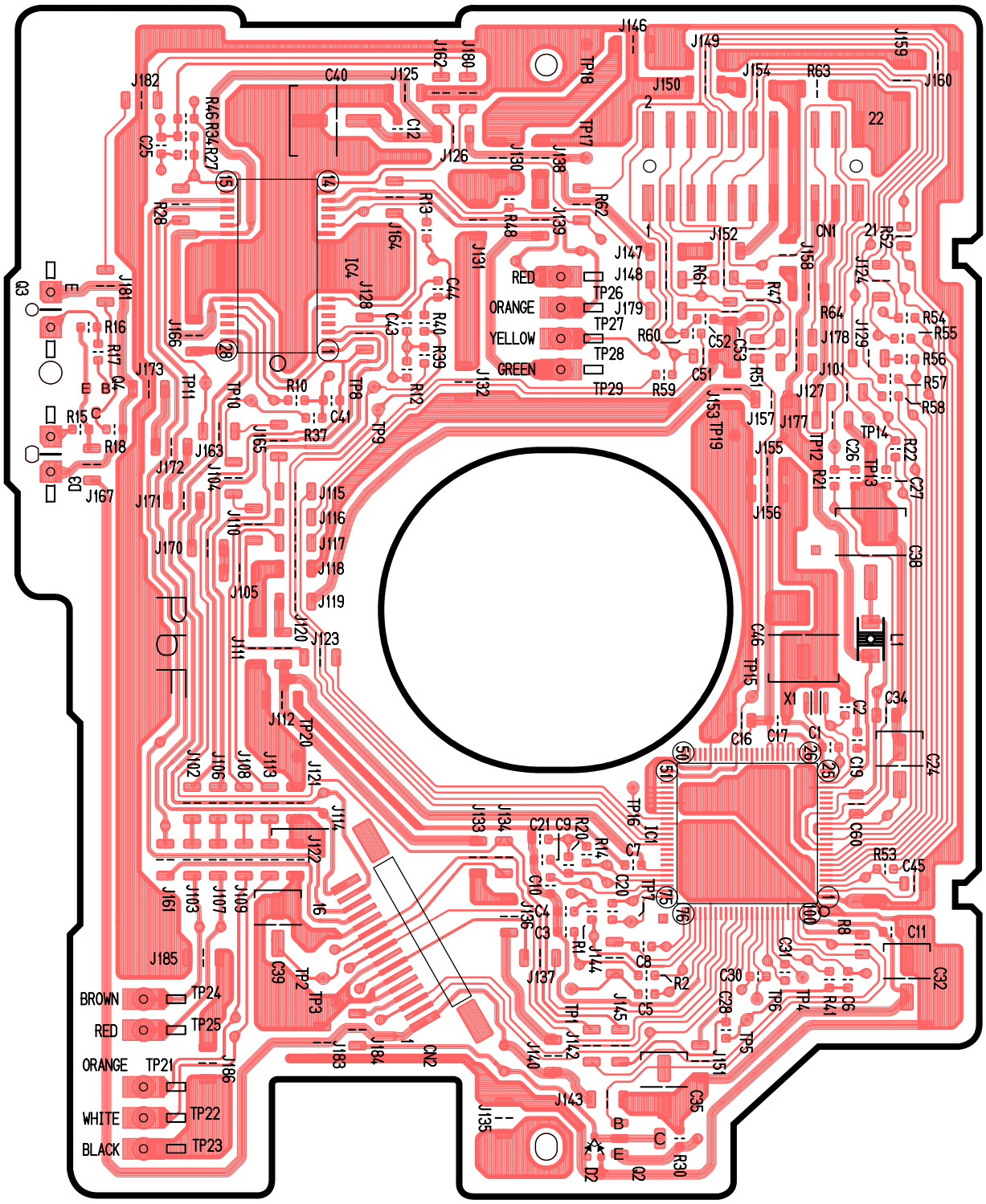
CQ-C8300UL/CQ-C8400UL MAIN



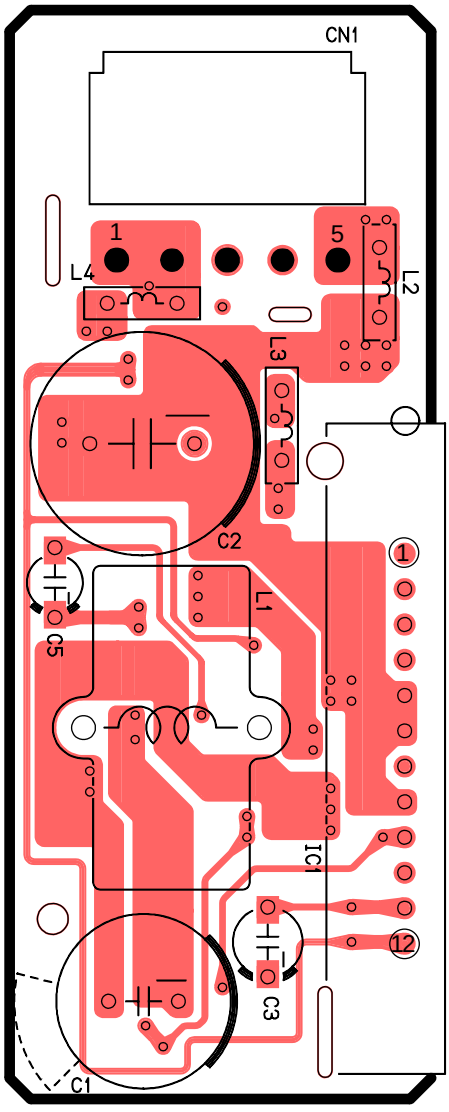
[3032-14-05] [Bottom View]



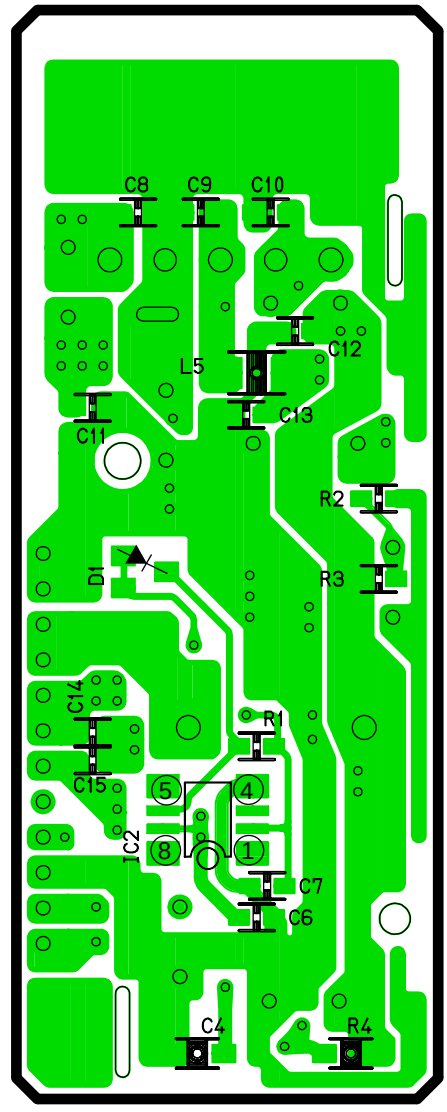
[3032-14-05] [Top View]



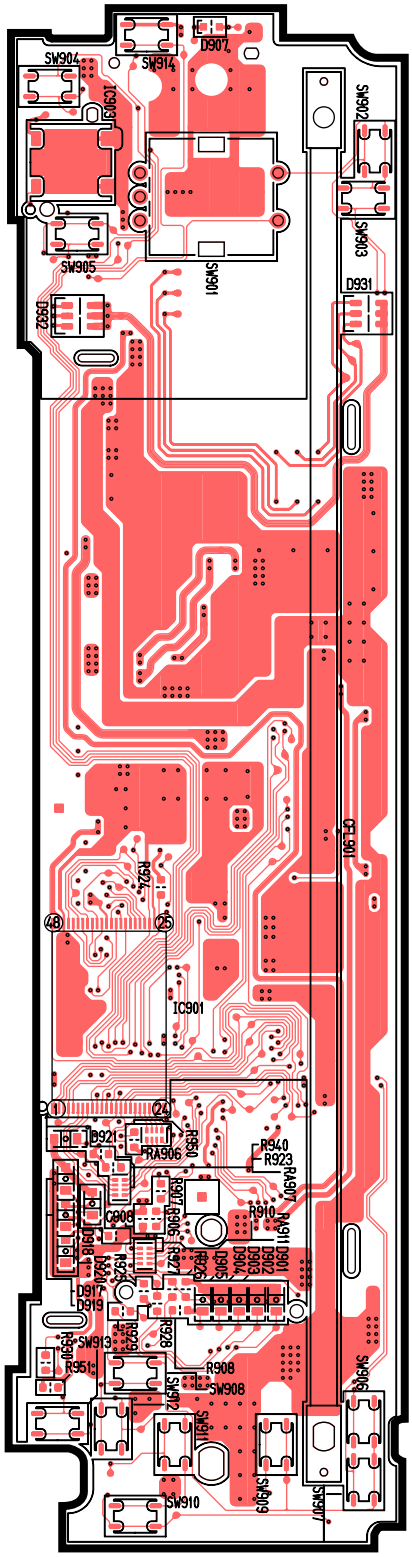
[E-9414][Top View]



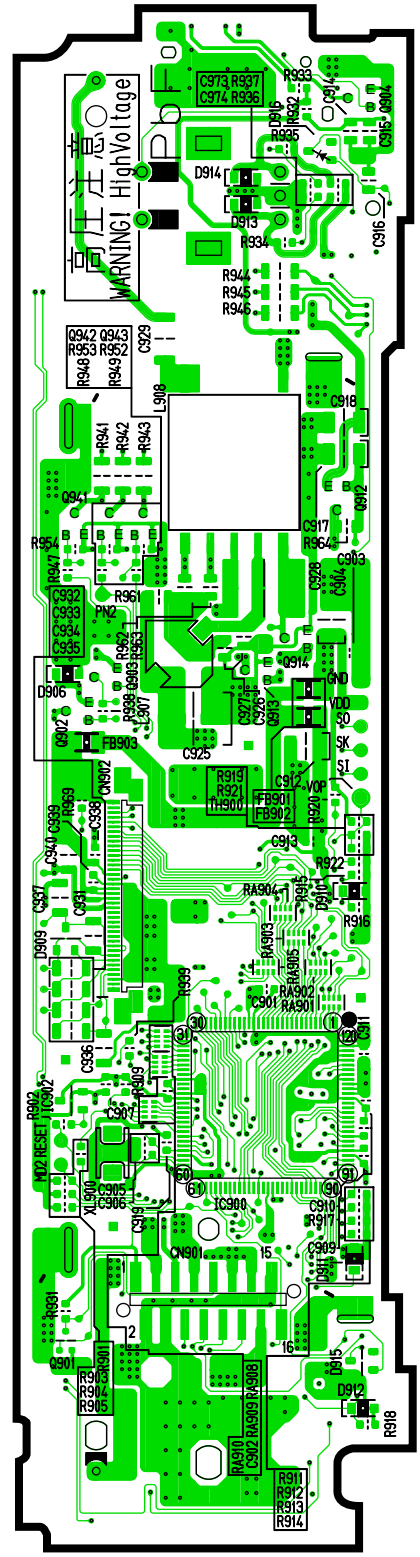
[E-8515][Top View]



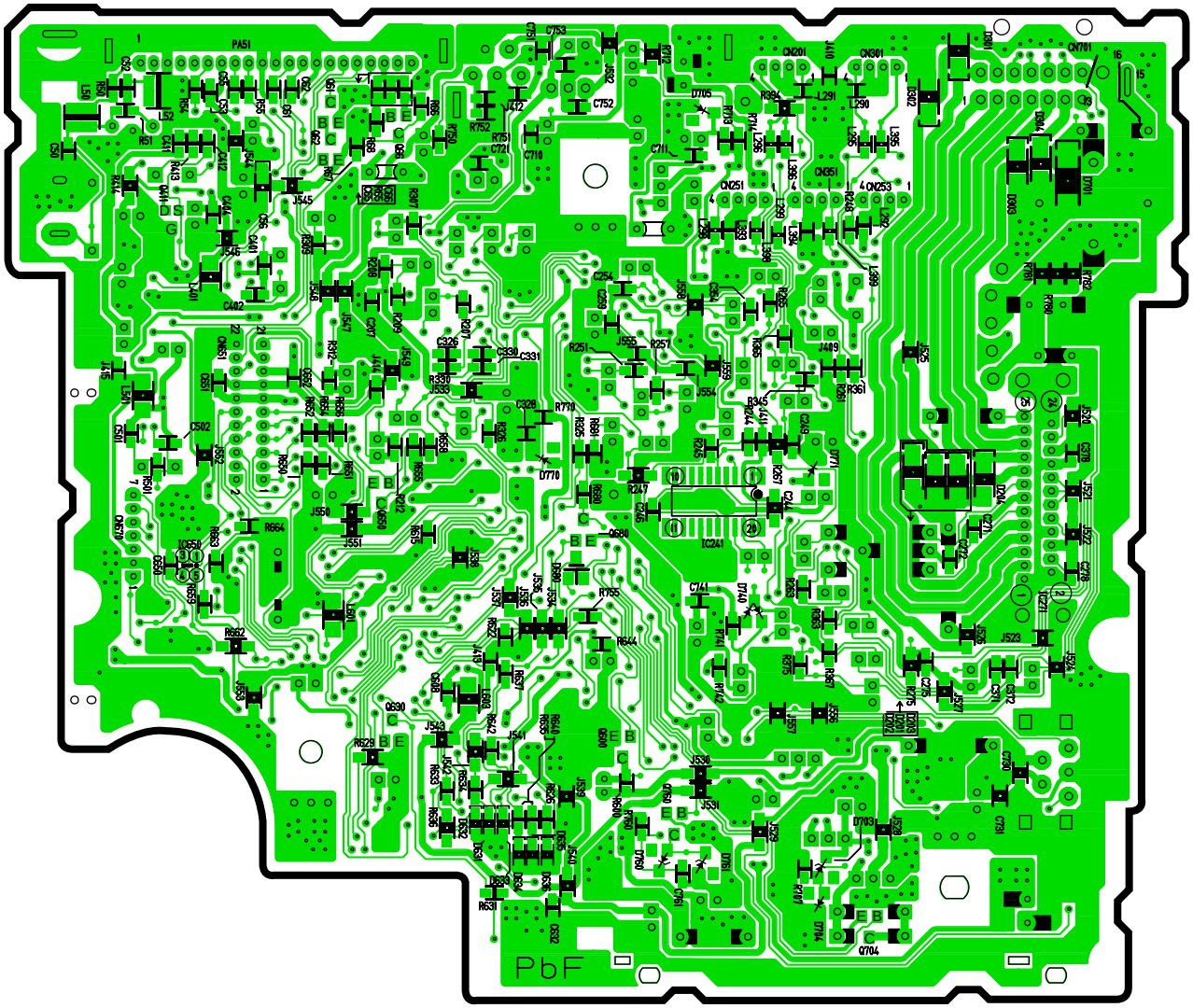
[E-8515][Bottom View]



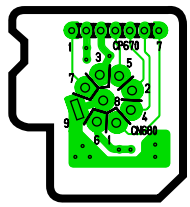
[E-9413][Top View]



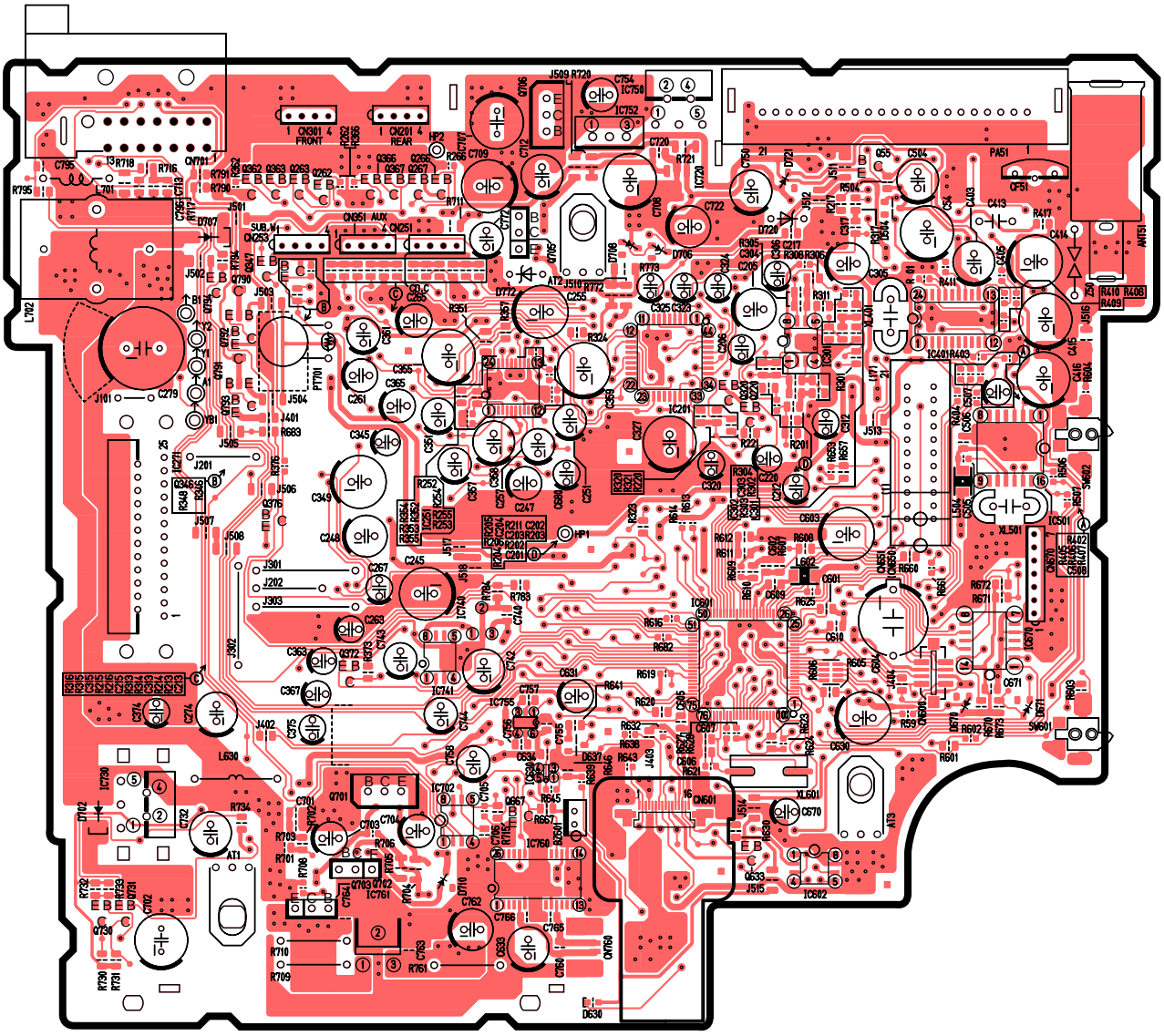
[E-9413][Bottom View]



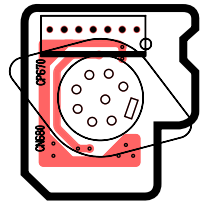
[E-6985a][Bottom View]



[E-6985b][Bottom View]

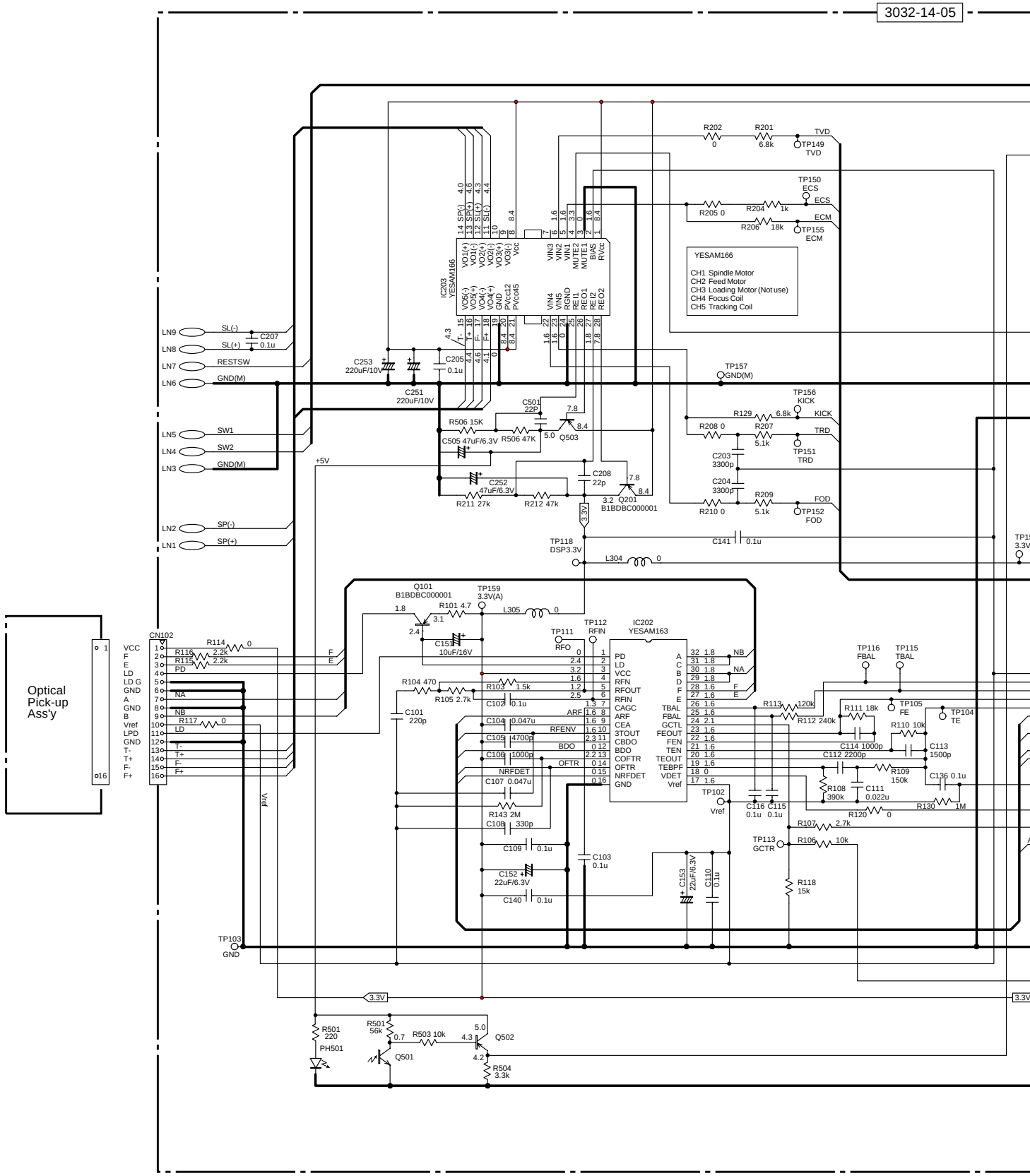


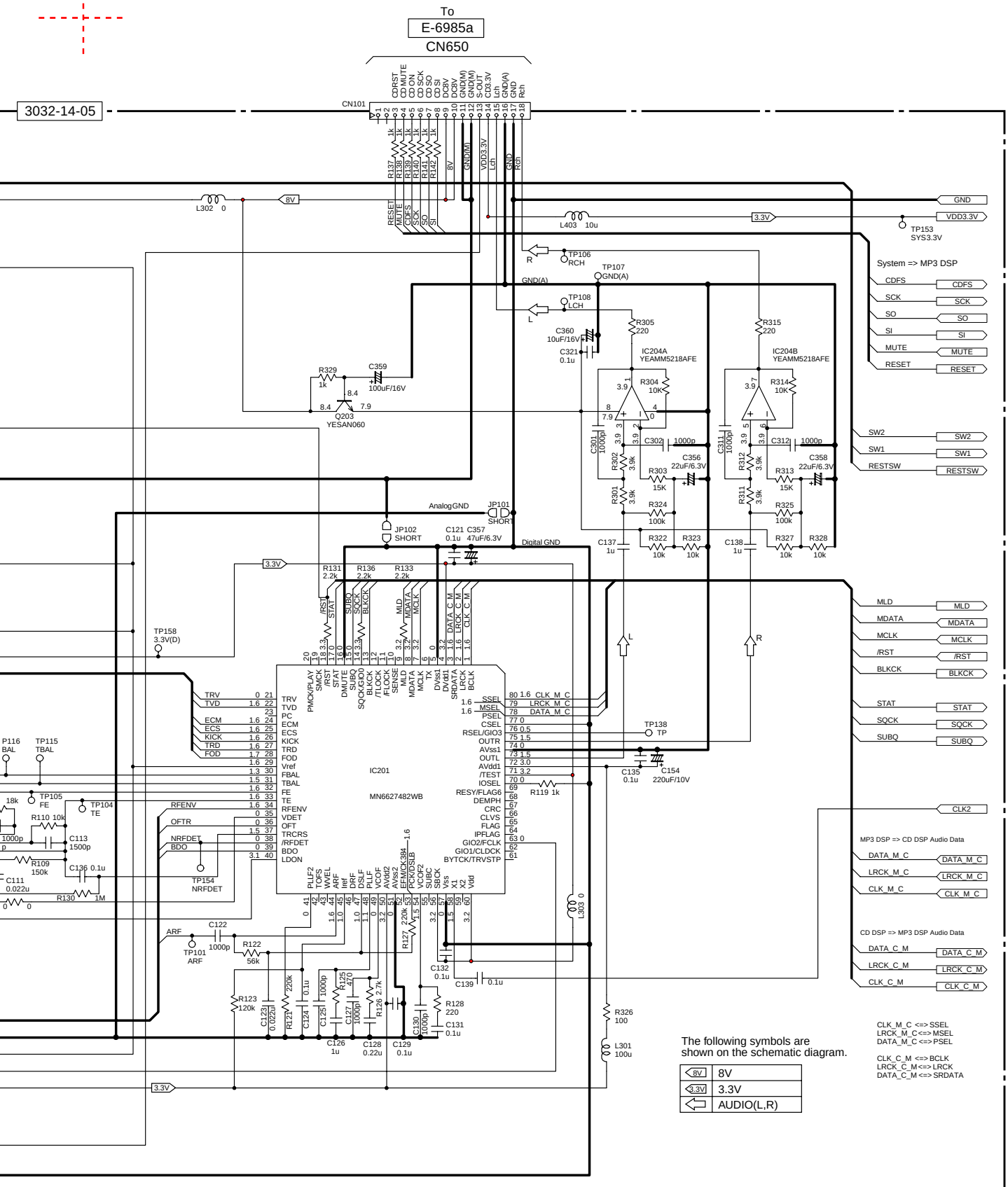
[E-6985a][Top View]



[E-6985b][Top View]

24.4. CD Servo Block-1 [CQ-C8400U/C8300U]

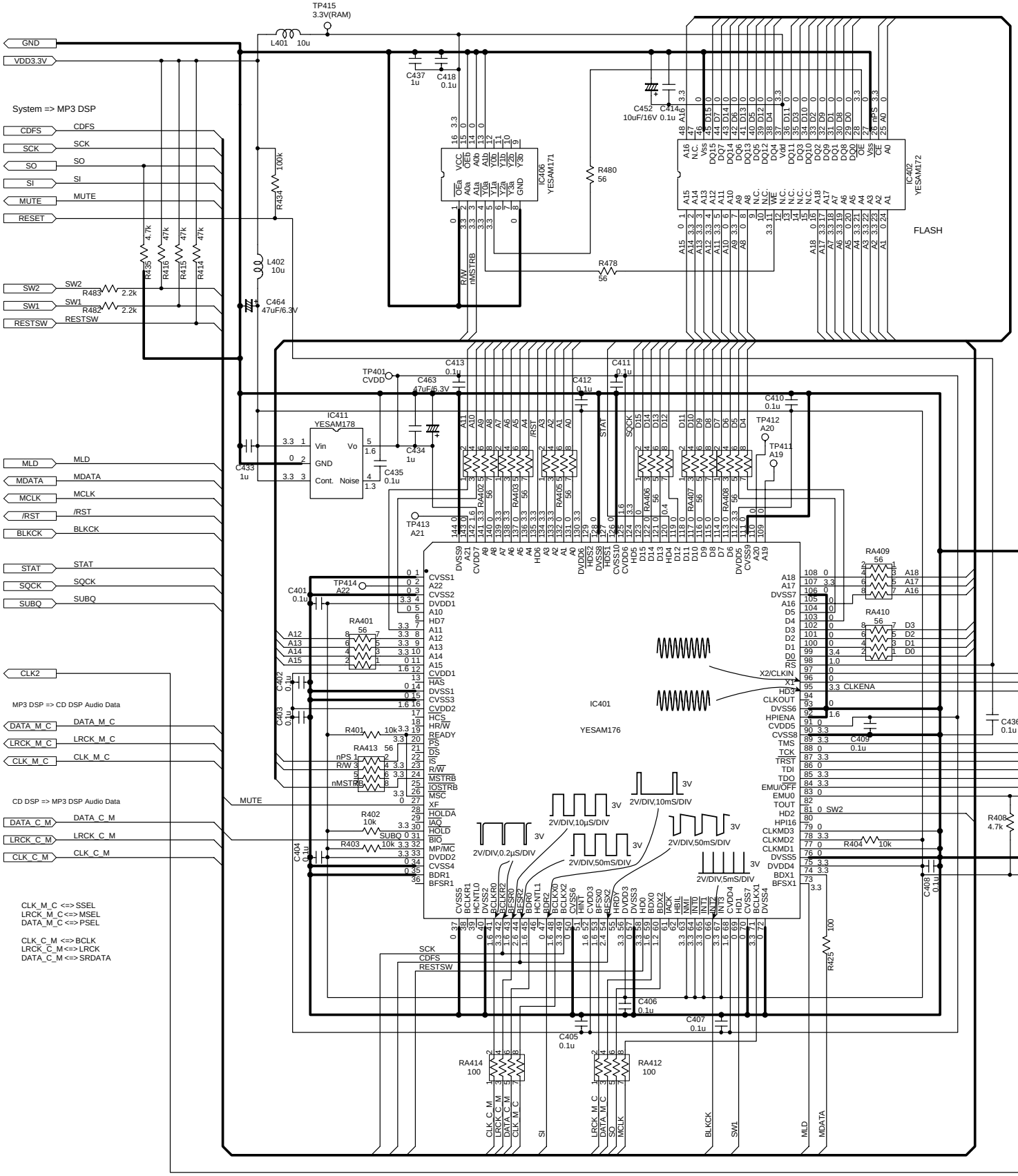




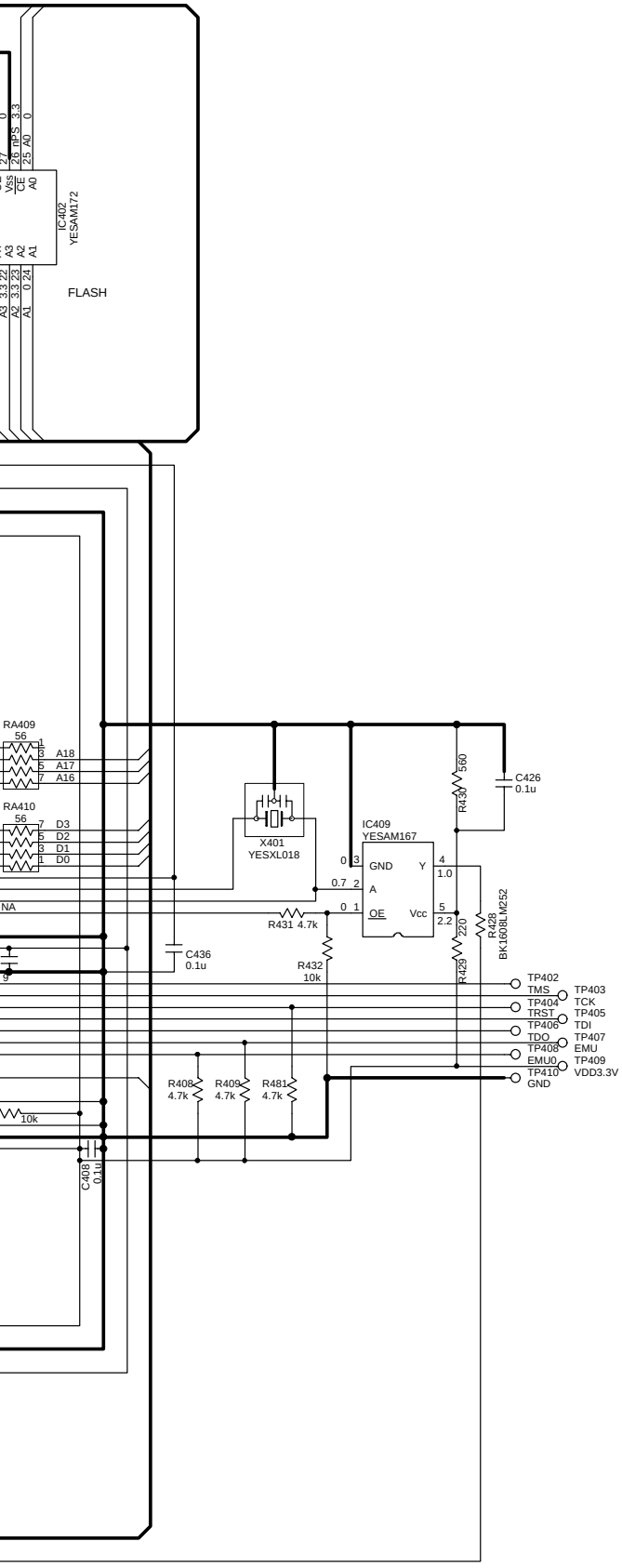
CQ-C8400U/C8300U YGFD15276-1

24.5. CD Servo Block-2 [CQ-C8400U/C8300U]

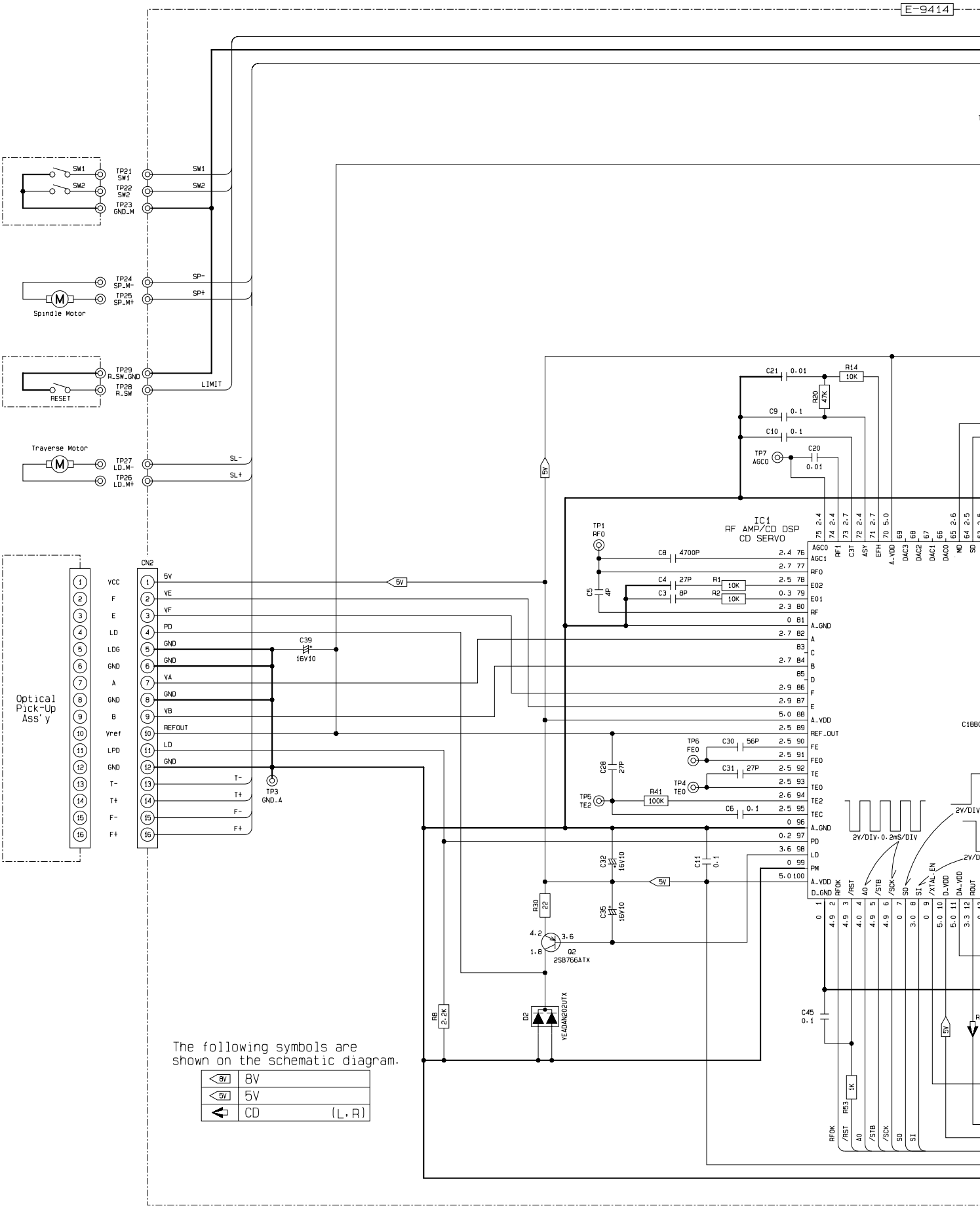
3032-14-05

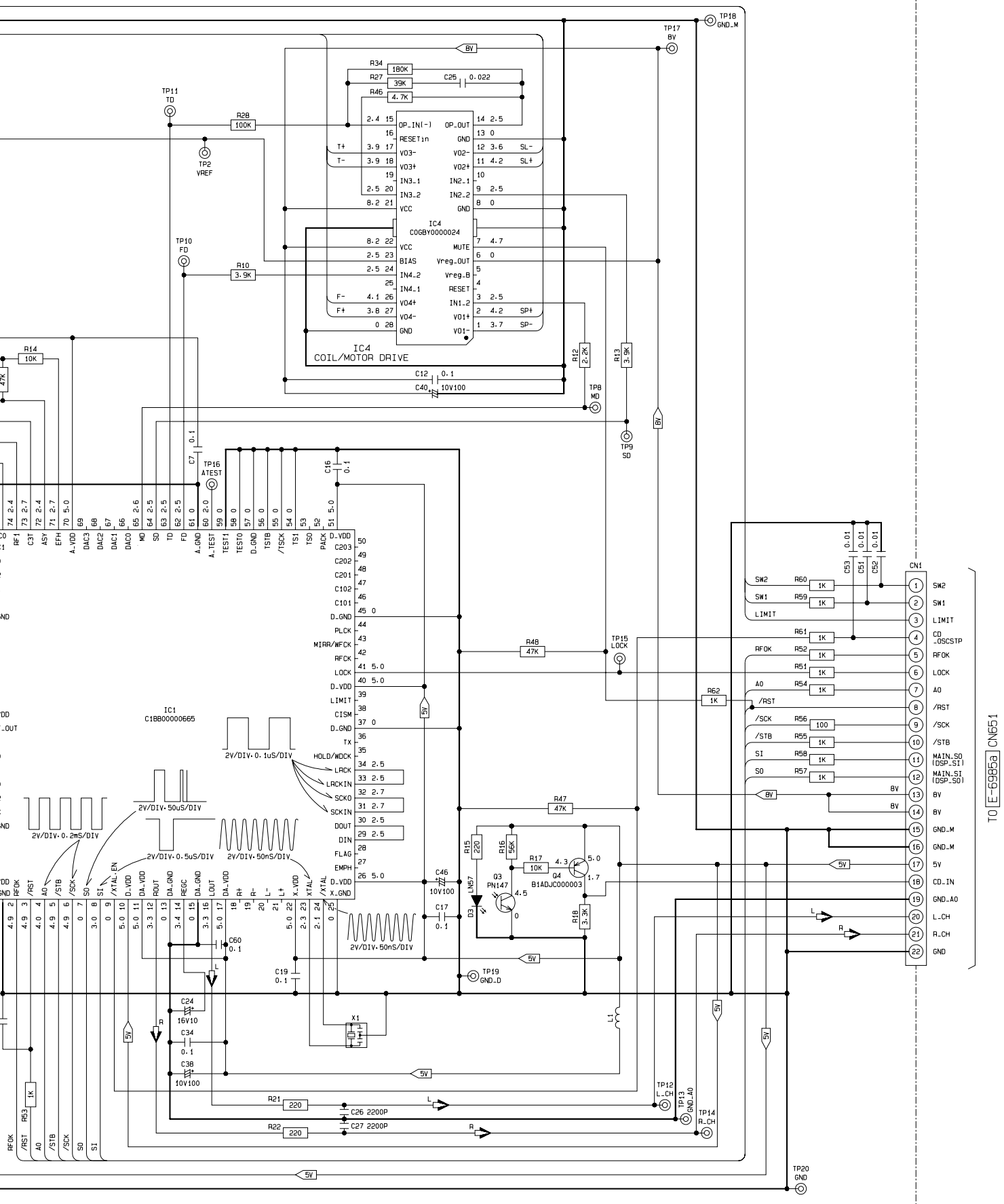


4-05

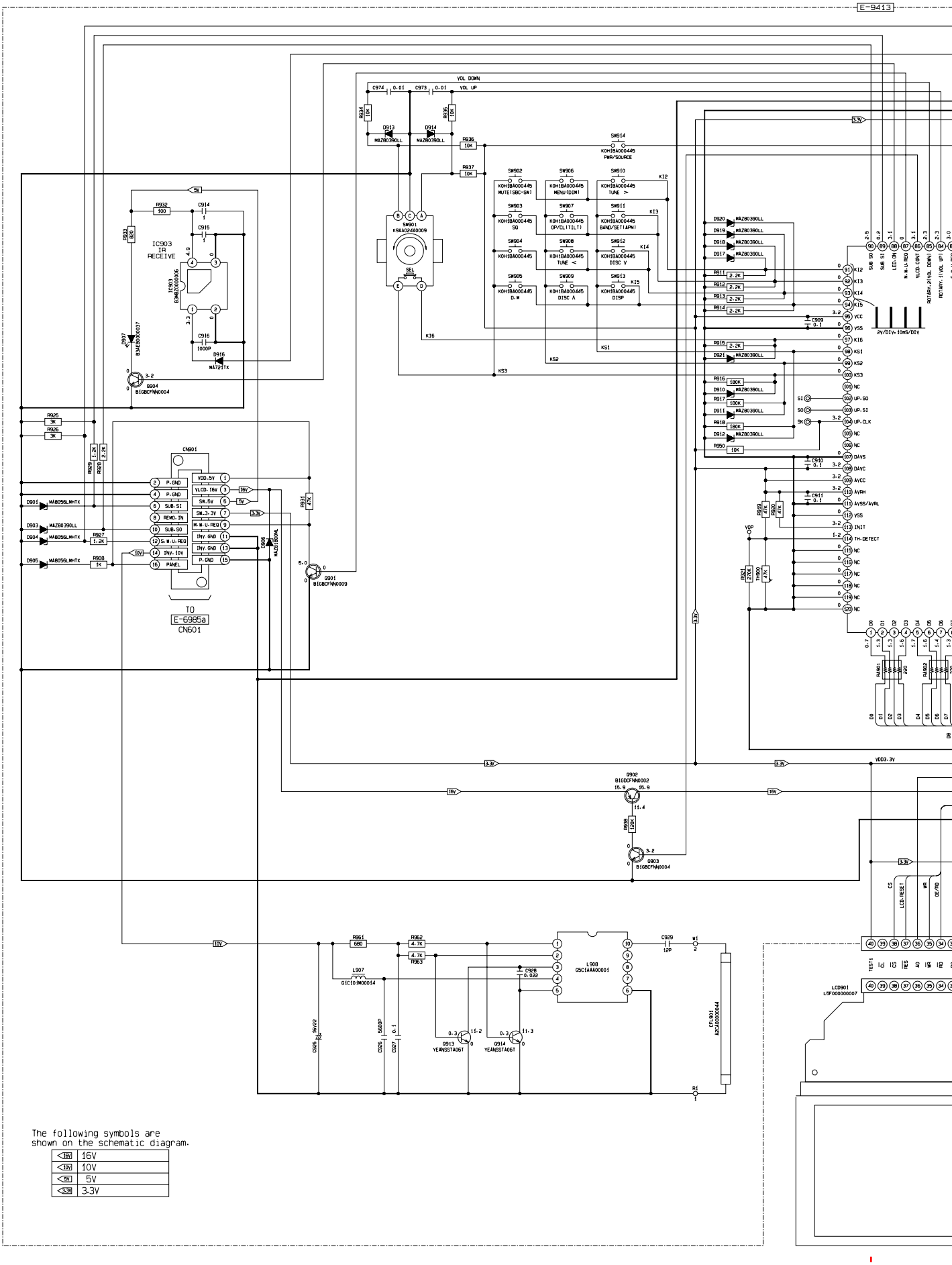

IC402
YESAM172
FLASH
RA409
56
A18
A17
A16
RA410
56
D3
D2
D1
D0
X401
YESXL018
IC409
YESAM167
GND
A
OE
Y
Vcc
R431 4.7k
R432
10k
R428
BK1608LM252
220
R429
560
R430
C426
0.1u
C436
0.1u
C408
0.1u
R408
4.7k
R409
4.7k
R481
4.7k
10k
TP402
TMS
TP404
TRST
TP406
TDO
TP408
EMU0
TP410
GND
TP403
TCK
TP405
TDI
TP407
EMU
TP409
VDD3.3V

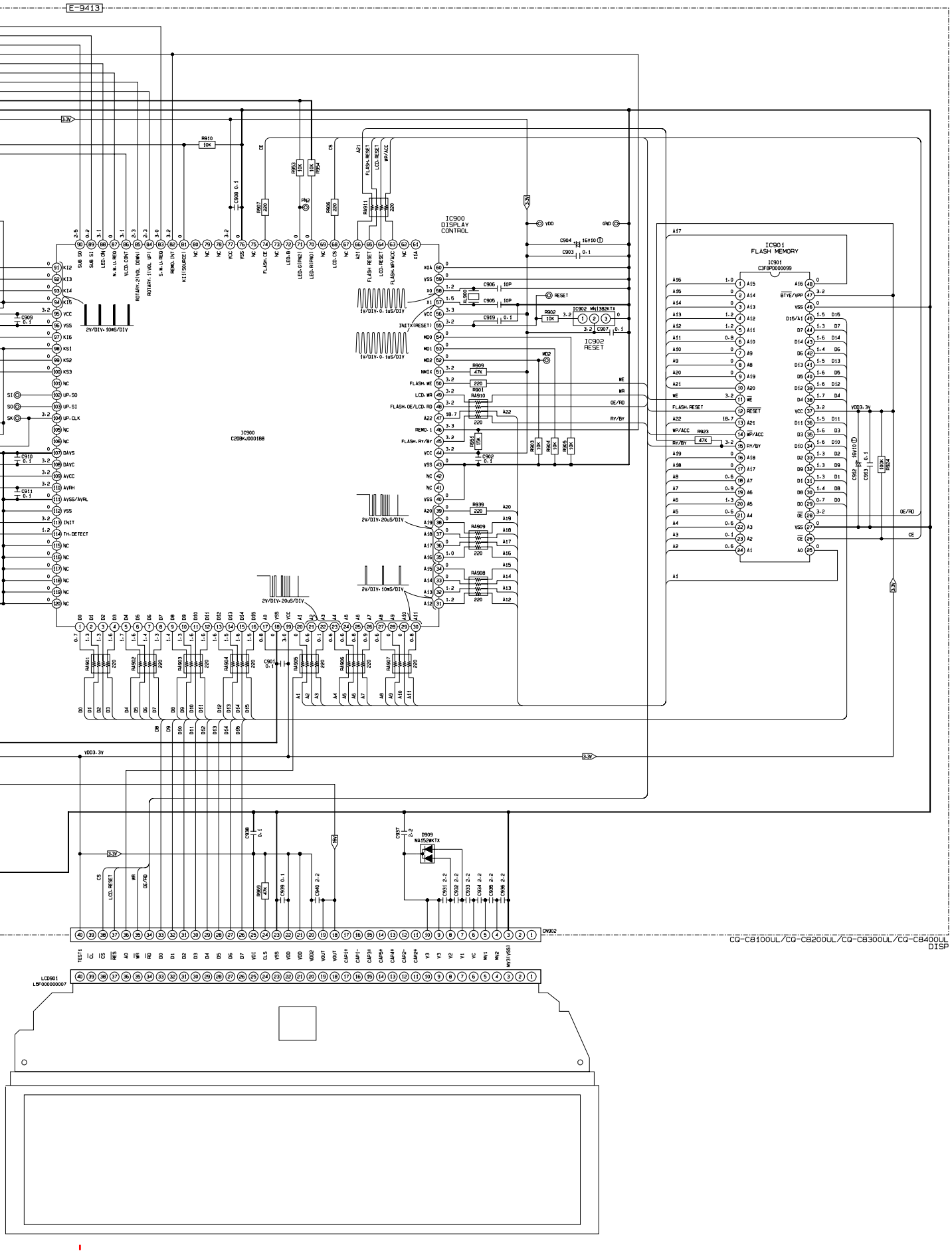
24.6. CD Servo Block [CQ-C8200U/C8100U]



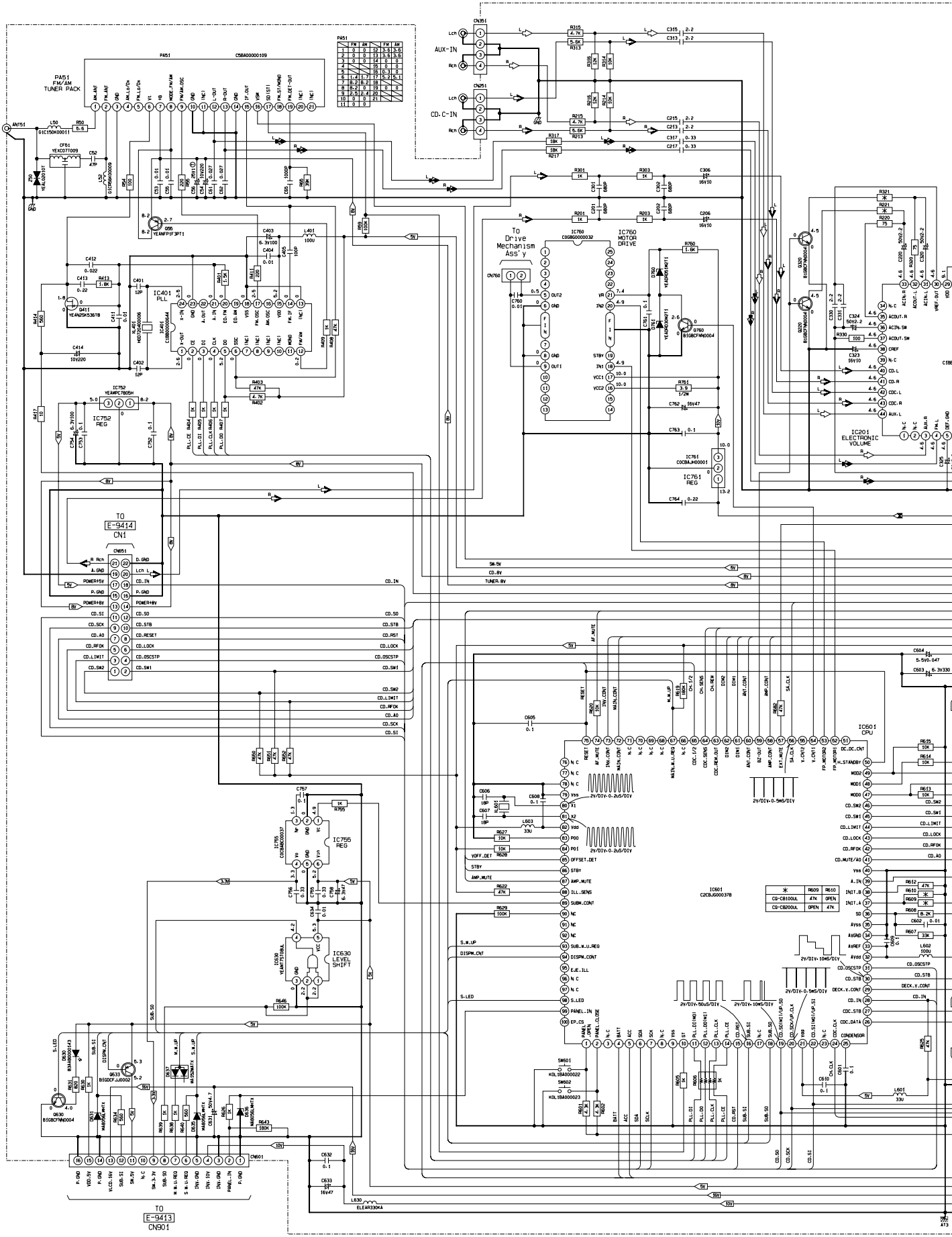

IC4
COIL/MOTOR DRIVE
IC4
C0GBY0000024
IC1
C1BB00000665
TO E-6985a CN651
CN1
2V/DIV·0.1uS/DIV
2V/DIV·50uS/DIV
2V/DIV·0.2mS/DIV
2V/DIV·0.5uS/DIV
2V/DIV·50nS/DIV
2V/DIV·50nS/DIV

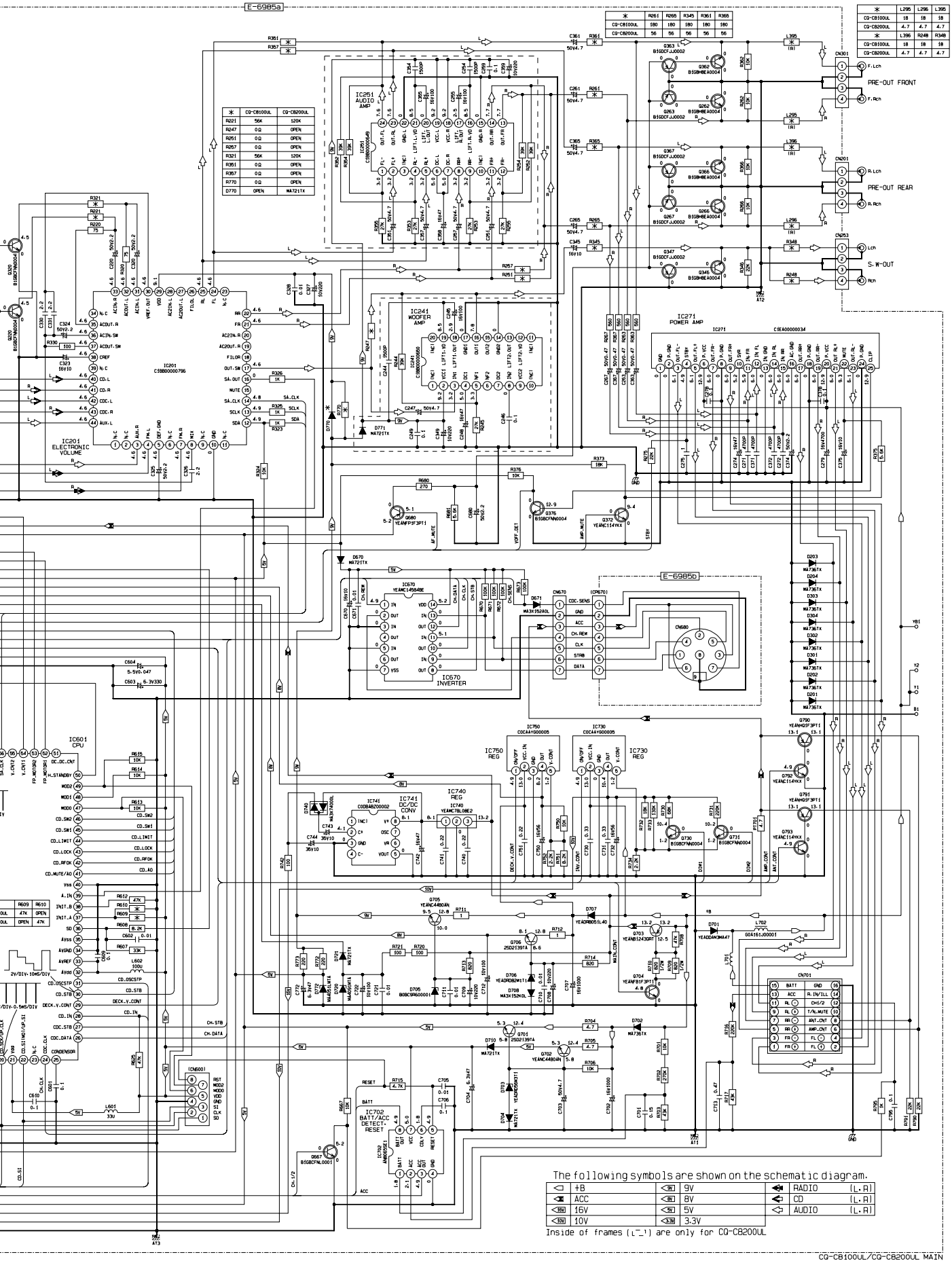
24.3. Display Block




E-9413
IC900
DISPLAY
CONTROL
IC900
C2DBKJ000188
IC901
FLASH MEMORY
IC901
C3FBPD000099
IC902
RESET
IC902 MN1382KTX
D909
MA152WKTX
CN902
LCD901
L5F000000007
CQ-C8100UL/CQ-C8200UL/CQ-C8300UL/CQ-C8400UL
DISP

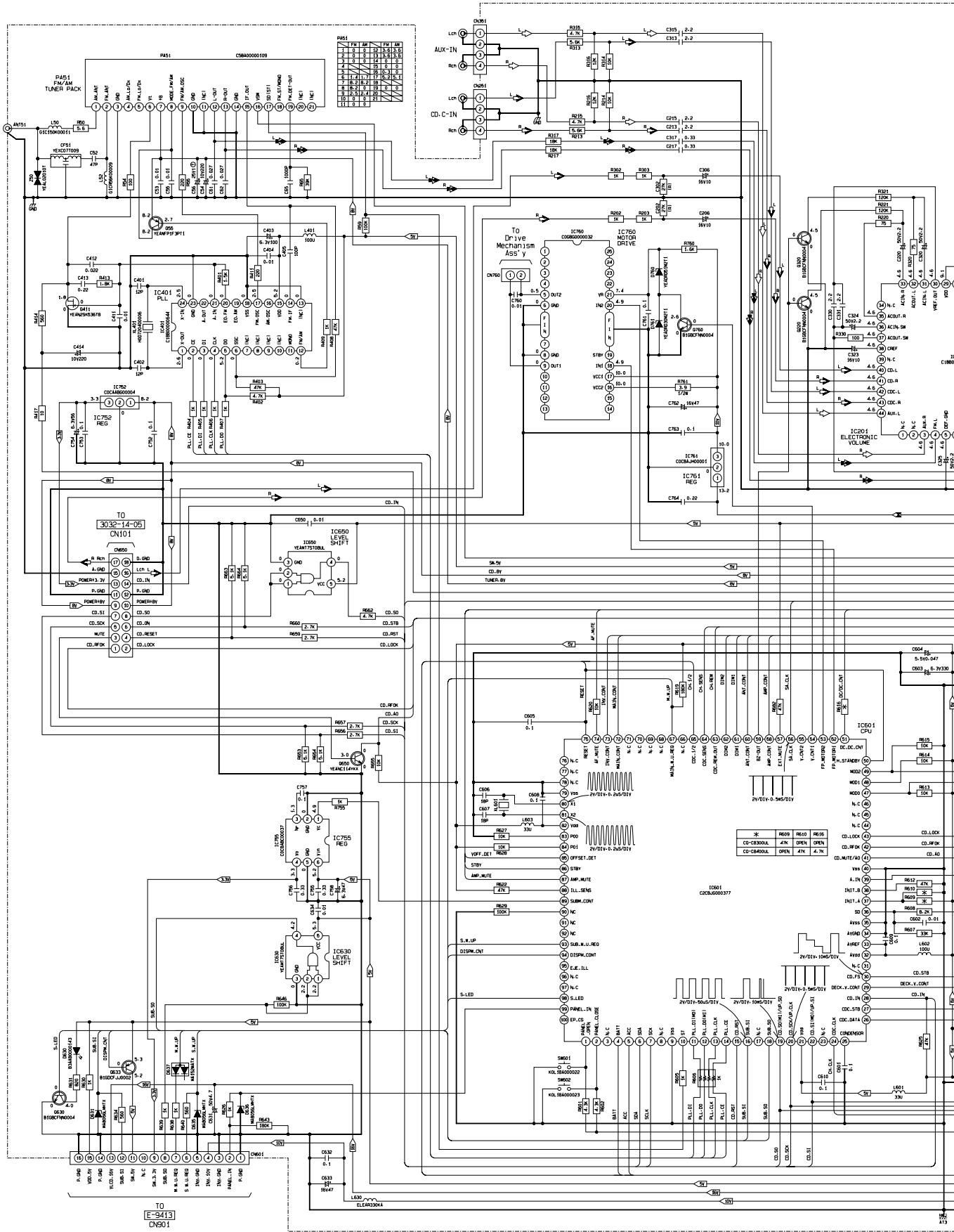
24.2. Main Block [CQ-C8200U/C8100U]

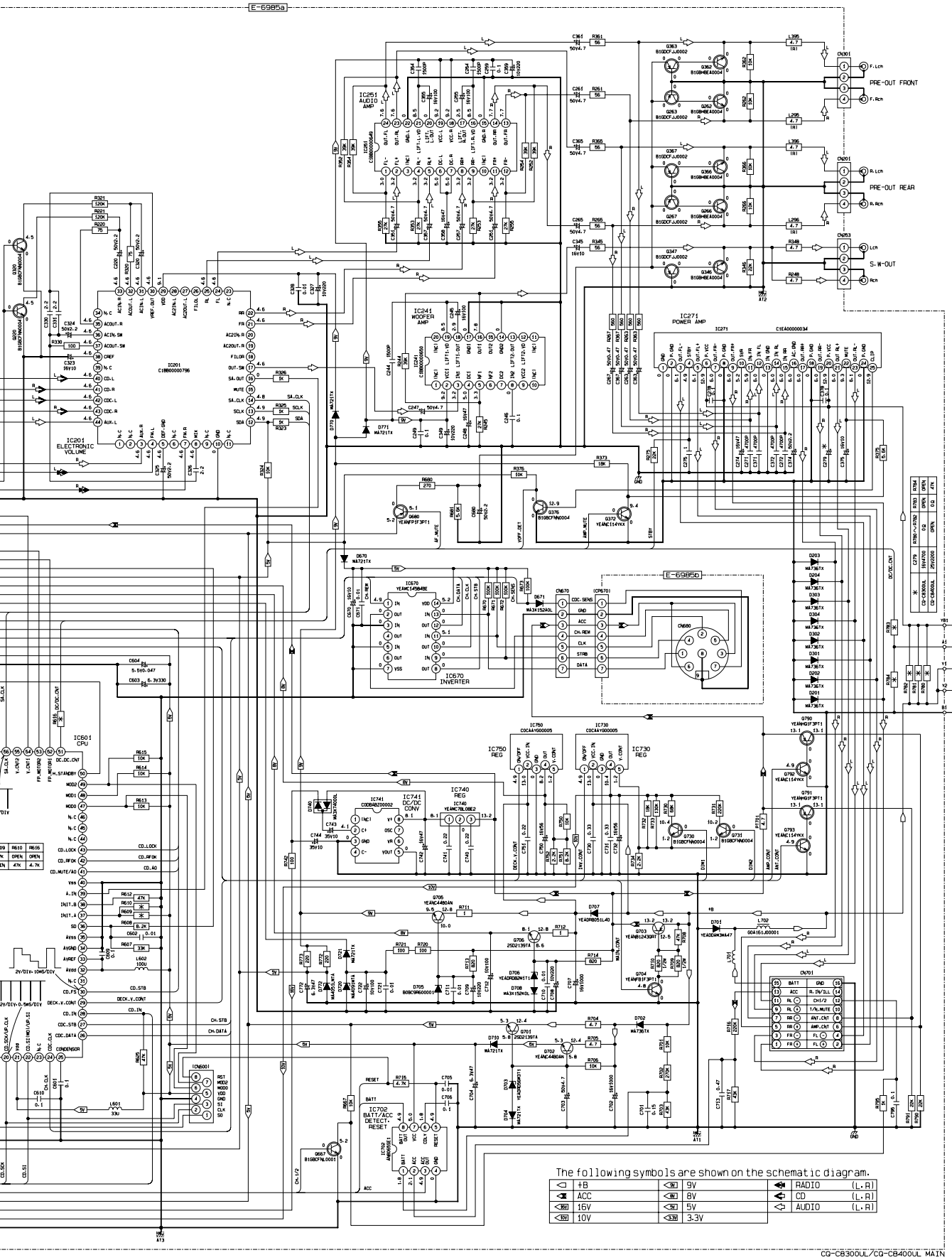



E-6985a
E-6985b
PRE-OUT FRONT
PRE-OUT REAR
S.W-OUT
IC251 AUDIO AMP
IC241 WOOFER AMP
IC271 POWER AMP
IC201 ELECTRONIC VOLUME
IC601 CPU
IC670 INVERTER
IC750 REG
IC730 REG
IC740 REG
IC741 DC/DC CONV
IC702 BATT/ACC DETECT-RESET
CN301
CN201
CN253
CN701
CN6001
CN680
CN670
CN6701
The following symbols are shown on the schematic diagram.
+B
ACC
16V
10V
9V
8V
5V
3.3V
RADIO (L.A)
CD (L.A)
AUDIO (L.A)
Inside of frames ( ) are only for CQ-C8200UL
CQ-CB100UL/CQ-CB200UL MAIN

24 SCHEMATIC DIAGRAM-2

24.1. Main Block [CQ-C8400U/C8300U]




E-6985a
E-6985b
IC201 ELECTRONIC VOLUME
IC251 AUDIO AMP
IC241 WOOFER AMP
IC271 POWER AMP
IC601 CPU
IC670 INVERTER
IC702 BATT/ACC DETECT. RESET
IC750 REG
IC730 REG
IC740 REG
IC741 DC/DC CONV
PRE-OUT FRONT
PRE-OUT REAR
S.W-OUT
TO E-6851CN1
The following symbols are shown on the schematic diagram.
+B
ACC
16V
10V
9V
8V
5V
3.3V
RADIO (L.A)
CD (L.A)
AUDIO (L.A)
CQ-C8300UL/CQ-C8400UL MAIN

3032-14-05

To E-6985a CN650

CN101

CDRST CDMUTE CDDATA CDSCK CDSO CDSI DC5V DC3V GND(M) GND(M) S-OUT CD3.3V Lch GND(A) GND Rch

R137 1k R138 1k R139 1k R140 1k R141 1k R142 1k

8V VDD3.3V Lch GND Rch GND(M)

RESET MUTE CDFS SCK SO SI

L302 0 — 8V

L403 10u — 3.3V — TP153 SYS3.3V — GND — VDD3.3V

System => MP3 DSP

CDFS SCK SO SI MUTE RESET

SW2 SW1 RESTSW

MLD MDATA MCLK /RST BLKCK

STAT SQCK SUBQ

CLK2

MP3 DSP => CD DSP Audio Data

DATA_M_C LRCK_M_C CLK_M_C

CD DSP => MP3 DSP Audio Data

DATA_C_M LRCK_C_M CLK_C_M

CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL

CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA

TP106 RCH — TP107 GND(A) — TP108 LCH

GND(A) — L — R

C360 10uF/16V — C321 0.1u

R305 220 — R315 220

IC204A YEAMM5218AFE — IC204B YEAMM5218AFE

R304 10K — R314 10K

C301 1000p — C302 1000p — C311 1000p — C312 1000p

R302 3.9k — R303 15K — R312 3.9k — R313 15K

C356 22uF/6.3V — C358 22uF/6.3V

R301 3.9k — R324 100k — R311 3.9k — R325 100k

C137 1u — R322 10k — R323 10k — C138 1u — R327 10k — R328 10k

R329 1k — C359 100uF/16V — Q203 YESAN060

JP101 SHORT — AnalogGND — JP102 SHORT — Digital GND

C121 0.1u — C357 47uF/6.3V

IC203 YESAM166

VO1(+) VO1(-) VO2(+) VO2(-) VO3(+) VO3(-) Vcc — GND PVcc12 PVcc45

VIN3 VIN2 VIN1 MUTE2 MUTE1 BIAS RVcc

VO5(-) VO5(+) VO4(-) VO4(+) GND PVcc12 PVcc45

VIN4 VIN5 RGND RE I1 RE O1 RE I2 RE O2

T- T+ F- F+

YESAM166

CH1 Spindle Motor
CH2 Feed Motor
CH3 Loading Motor (Not use)
CH4 Focus Coil
CH5 Tracking Coil

LN9 SL(-) — C207 0.1u — LN8 SL(+) — LN7 RESTSW — LN6 GND(M)

C253 220uF/10V — C205 0.1u — C251 220uF/10V

LN5 SW1 — LN4 SW2 — LN3 GND(M)

+5V

R506 15K — R506 47K — C501 22P — Q503 — C505 47uF/6.3V

C252 47uF/6.3V — R211 27k — R212 47k — C208 22p — Q201 B1BDBC000001

3.3V — TP118 DSP3.3V — L304 0 — TP158 3.3V(D)

C141 0.1u

R202 0 — R201 6.8k — TVD — TP149 TVD

TP150 ECS — R205 0 — R204 1k — ECS — ECM — R206 18k — TP155 ECM

TP157 GND(M)

TP156 KICK — R129 6.8k — KICK

R208 0 — R207 5.1k — TRD — TP151 TRD

C203 3300p — C204 3300p

R210 0 — R209 5.1k — FOD — TP152 FOD

LN2 SP(-) — LN1 SP(+)

Q101 B1BDBC000001 — TP159 3.3V(A) — R101 4.7 — L305 0

C151 10uF/16V

TP111 RFO — TP112 RFIN — IC202 YESAM163

PD LD VCC RFN RFOUT RFIN CAGC ARF CEA 3TOUT CBDO BDO COFTR OFTR NRFDET GND

A C B D F E TBAL FBAL GCTL FEOUT FEN TEN TEOUT TEBPF VDET Vref

NB NA F E

R104 470 — R105 2.7k — R103 1.5k — C102 0.1u — C101 220p

ARF — C104 0.047u — RFENV — C105 4700p — BDO — C106 1000p — OFTR — NRFDET — C107 0.047u — R143 2M — C108 330p — C109 0.1u — C152 22uF/6.3V — C140 0.1u — C103 0.1u

C153 22uF/6.3V — C110 0.1u

TP116 FBAL — TP115 TBAL — TP105 FE — TP104 TE

R113 120k — R112 240k — R111 18k — R110 10k — C114 1000p — C112 2200p — C113 1500p — R109 150k — R108 390k — C111 0.022u — C136 0.1u — R130 1M — R120 0

TP102 Vref — C116 0.1u — C115 0.1u

TP113 GCTR — R107 2.7k — R106 10k — R118 15k

IC201 MN6627482WB

TRV TVD PC ECM ECS KICK TRD FOD Vref FBAL TBAL FE TE RFENV VDET OFT TRCRS /RFDET BDO LDON

PMCK/PLAY SMCK /RST STAT /MUTE SUBQ SQCK/SQSO BLKCK /TLOCK /FLOCK SENSE MLD MDATA MCLK TX DVss1 DVdd1 SRDATA LRCK BCLK

SSEL MSEL PSEL CSEL RSEL/GIO3 OUTR AVss1 OUTL AVdd1 /TEST IOSEL RESY/FLAG6 DEMPH CRC CLVS FLAG IPFLAG GIO2/FCLK GIO1/CLDCK BYTCK/TRVSTP

PLLF2 TOFS WVEL ARF Iref DRF PLL F VCOF AVdd2 AVss2 EFMCK384 VCOF2 SUBC SBCK Vss X1 X2 Vdd

TP154 NRFDET — ARF — TP101 ARF — C122 1000p — R122 56k

R123 120k — C123 0.022uF — R121 220k — C124 0.1u — C125 1000p — R125 470 — C127 1000p — R126 2.7k — C126 1u — C128 0.22u — C129 0.1u — C130 1000p — R128 220 — C131 0.1u — C132 0.1u — C139 0.1u

R127 220k — L303 0 — R326 100 — L301 100u

TP138 TP — C135 0.1u — C154 220uF/10V

R119 1k

CN102

1	VCC	R114 0	
2	F	R116 2.2k	F
3	E	R115 2.2k	E
4	LD	PD	
5	LD G		
6	GND		
7	A	NA	
8	GND		
9	B	NB	
10	Vref	R117 0	
11	LPD	LD	
12	GND		
13	T-		
14	T+		
15	F-		
16	F+		

Optical Pick-up Ass'y

TP103 GND — Vref

3.3V — R501 220 — PH501 — R501 56k — Q501 — R503 10k — Q502 — R504 3.3k

The following symbols are shown on the schematic diagram.

8V	8V
3.3V	3.3V
	AUDIO(L,R)

TP415
3.3V(RAM)
L401 10u
GND
VDD3.3V
C437 1u
C418 0.1u
C452 10uF/16V
C414 0.1u
System => MP3 DSP
CDFS
SCK
SO
SI
MUTE
RESET
R434 100k
R435 4.7k
R416 47k
R415 47k
R414 47k
L402 10u
SW2
R483 2.2k
SW1
R482 2.2k
RESTSW
C464 47uF/6.3V
IC406 YESAM171
R480 56
R478 56
R/W
nMSTRB
IC402 YESAM172
FLASH
TP401 CVDD
C463 47uF/6.3V
C413 0.1u
C412 0.1u
C411 0.1u
C410 0.1u
TP412 A20
TP411 A19
IC411 YESAM178
Vin
GND
Cont.
Vo
Noise
C433 1u
C434 1u
C435 0.1u
TP413 A21
TP414 A22
C401 0.1u
C402 0.1u
C403 0.1u
C404 0.1u
IC401 YESAM176
RA401 56
RA409 56
RA410 56
RA413 56
R401 10k
R402 10k
R403 10k
SUBQ
nPS
R/W
MSTRB
MUTE
MLD
MDATA
MCLK
/RST
BLKCK
STAT
SQCK
SUBQ
CLK2
MP3 DSP => CD DSP Audio Data
DATA_M_C
LRCK_M_C
CLK_M_C
CD DSP => MP3 DSP Audio Data
DATA_C_M
LRCK_C_M
CLK_C_M
CLK_M_C <=> SSEL
LRCK_M_C <=> MSEL
DATA_M_C <=> PSEL
CLK_C_M <=> BCLK
LRCK_C_M <=> LRCK
DATA_C_M <=> SRDATA
SCK
CDFS
RESTSW
SOCK
SW2
SW1
2V/DIV,10µS/DIV
2V/DIV,10mS/DIV
2V/DIV,0.2µS/DIV
2V/DIV,50mS/DIV
2V/DIV,50mS/DIV
2V/DIV,5mS/DIV
3V
C406 0.1u
C407 0.1u
C405 0.1u
C408 0.1u
C409 0.1u
C436 0.1u
C426 0.1u
X401 YESXL018
IC409 YESAM167
R430 560
R431 4.7k
R432 10k
R428 BK1608LM252
R429 220
R425 100
R404 10k
R408 4.7k
R409 4.7k
R481 4.7k
RA414 100
RA412 100
TP402 TMS
TP403 TCK
TP404 TRST
TP405 TDI
TP406 TDO
TP407 EMU
TP408 EMU0
TP409 VDD3.3V
TP410 GND

E-9414

TO E-6985a CN651

IC4
COEGBY0000024
COIL/MOTOR DRIVE

IC1
RF AMP/CD DSP
CD SERVO

IC1
C1BB000000665

Optical Pick-Up Ass'y

Spindle Motor

Traverse Motor

SW1
SW2
RESET
LIMIT

The following symbols are shown on the schematic diagram.

8V	8V
5V	5V
	CD (L,R)

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